

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 1

TOSS-UP

1 Latin American History

These people are directly associated with the history of what Central American nation?

Omar Torrijos, John F. Stevens, George Washington Goethals, Jimmy Carter, Manuel Noriega, George H.W. Bush, Guillermo Endara

Panama

2 Military Bases

In 1903, the U.S. Marine Corps occupied what Cuban bay, where an American facility remains to this day?

Guantanamo Bay

3 Geographical Divisions

The division of Kosovo into sectors controlled by different countries is reminiscent of the way what country was carved up at the end of the Second World War?

Germany

4 Navigation Routes

The Seguam, Amukta, Unimak, and Unimak passes are navigation lanes through what island chain?

Aleutian Islands

5 Outbreaks

In early 2016, the U.S. Olympic Committee told American athletes that they might consider not attending the Rio Olympics in August if they are concerned about the outbreak of what mosquito-borne disease in that region?

Zika virus

BONUS

1 Mammals

Among the large herbivorous marine mammals of tropical waters are sea cows, dugongs, and what other?

manatees

2 Nationalities

What is the nationality of the people who live in the neighborhood of the world's deepest lake?

Russian

3 Native Americans

These peoples were among the first to dwell in the region that became what U.S. state?

Bannock, Chasta, Chinook, Tillamook, Klamath

Oregon

4 Mideast Cities

What is the largest city in the Gaza Strip?

Gaza

5 Walking Problems

Terri walks at a rate of 4 mph and Donna at a rate of 3 mph. If Donna has a half hour head start, how long will it be from when Terri starts walking until she catches Donna?

1.5 hours

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TOSS-UP

6 Settings

What continent is the setting for "The Bridge of San Luis Rey"?

South America

7 Archaeologists

Heinrich Schliemann, the German archaeologist who discovered and excavated the ruins of ancient Troy, was a student of the works of what Greek epic poet?

Homer

8 Art Forms

Originally, this term indicated a formal, religious panel-painting or mosaic. Today, in the computer industry, it refers to any stylized or symbolic image. What is it?

icon

9 Supplies

"Resources" is a broad term for the total amount of a geologic material in all deposits, discovered and undiscovered. What term refers to those resources that have already been discovered and can be economically extracted now?

reserves

10 Factorials

Evaluate 7 factorial.

BONUS

6 Encryption Technology

Name the electro-mechanical rotor cipher machine used by the Germany military during World War II.

Enigma

7 Twain's Characters

Huck and Jim join two rascallions on their way down the Mississippi. One is the king. What is the other called?

the duke

8 Digital Roots

What is the digital root of 9877?

4

9 Historical Novels

These novels are set during what war?
No Hero for the Kaiser
A Rose for the Anzac Boys
War Horse

World War I

10 Volcanic Ejecta

Name the very fluid fragments of molten lava ejected from a volcanic vent that flatten and congeal on the ground and sometimes build a cone around the vent.

5040

spatter

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TOSS-UP

1 1 Elections

What kind of election may be held when a primary election is not conclusive?

runoff

1 2 Malapropisms

What word should have been used in this sentence about Solomon?

Solomon, one of David's sons, had 300 wives and 700 porcupines.

concubines

1 3 Ratios

You have two numbers in the ratio of 2 to 3. The larger number is 30 more than half the smaller. What is the larger number?

45

BONUS

1 1 Cuba

What Soviet premier ordered the withdrawal of missiles from Cuba in 1962?

Nikita Khrushchev

1 2 Poetry

What word or phrase makes Poe's "The Raven" an example of a refrain poem?

nevermore (nothing more)

1 3 The Mountain Men

Every summer, the mountain men would assemble at a prearranged site where traders spread their wares of coffee, lead, gunpowder, liquor, and all kinds of supplies. What was such a get-together called?

rendezvous

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Round Number 2

TOSS-UP

1 Archaeology

Chaco Canyon is an ancient Anasazi ceremonial site and national monument in what state?

New Mexico

2 Vision

What type of vision is found only in animals with forward-facing eyes that produce a focused image of an object simultaneously on the retinas of both eyes?

binocular vision

3 Space Probes

Researchers in 2016 reported that what space telescope named for the German founder of modern astronomy has verified the existence of 1284 new exoplanets?

Kepler

4 World War II

In 1939, he met Hitler and discussed a possible coup d'etat in Oslo. In 1940, he revealed details of his country's defenses to the Germans. That same year, he became head of a puppet government. Name this Norwegian traitor.

Vidkun Quisling

5 Measurement

What measurement unit is used for frequency?

hertz

BONUS

1 Autobiographies

What leader of India wrote this autobiography?
The Story of My Experiments with Truth

Mohandas (Mahatma) Gandhi

2 Dangerous Journalism

What is the name for the kind of journalism that inflamed public sentiment to the point that the U.S. declared war on Spain in 1898?

yellow journalism

3 Bad Decisions

In his dissenting opinion, Justice Harlan predicted that the Supreme Court's decision in Plessy v. Ferguson to uphold "separate but equal" public facilities would become as infamous as what previous decision from 1857?

Dred Scott (Dred Scott v. Sandford)

4 Digital Roots

What is the digital root of any factorial equal to or larger than 6 factorial?

9

5 Etymology

The term "iridescence" is derived from the name of what Greek goddess of the rainbow?

Iris

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Round Number 2

TOSS-UP

6 Aerophones

Which category of aerophones is played by blowing through a funnel-shaped mouthpiece?

brass

7 Museums

The Holocaust Memorial Museum opened in 1993 in what city?

Washington, D.C.

8 Elements

What element has fewer protons than beryllium and more than helium?

lithium

9 Journalism

How would Teddy Roosevelt have classified these journalists?

- Greg Palast who wrote about the Exxon Valdez
- Morgan Spurlock who wrote about health problems related to McDonald's fast food
- Gary Weiss who wrote about the mob on Wall Street
- Carl Bernstein and Bob Woodward who wrote about Watergate

muckrakers

10 Superposition

You see a red stratum above a green stratum. A blue stratum is above the red stratum. A yellow stratum is below the green stratum, and a brown stratum is below the green stratum. According to the principle of superposition, which stratum is oldest?

brown stratum

BONUS

6 U.N. Actions

Between two nations at war, the United Nations may establish a DMZ which stands for what?

demilitarized zone

7 Cytology

Animal bodies are very flexible because their cells lack what structures and plant cells have?

cell walls

8 Literary Geography

A gorgeous castle covering a rock at the eastern end of Lake Geneva is described by Lord Byron in his poem, "The Prisoner of Chillon." This castle is in what nation?

Switzerland

9 Lopsided Opponents

During the Civil War, the Union had a population of over twenty million from twenty-one states while the Confederacy had a population of nine million from how many states?

11

10 Anatomical Malapropisms

What word should have completed this statement. Her ophthalmologist told her she was suffering from a detached rectum.

retina

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Round Number 2

TOSS-UP

1 1 Optics

While you are out bird watching one morning, you notice that moisture has accumulated on the lenses inside your old binoculars. Name this phenomenon.

fogging (condensation)

1 2 Court Orders

Even though a convicted killer might already be strapped to the execution table, what kind of court order could postpone the proceedings to a later date?

stay of execution

1 3 Inventors

Although James Watt is widely credited as the inventor of the steam engine, the first effective steam engine was demonstrated in 1712 by the Englishman, Thomas who?

Newcomen

BONUS

1 1 Painful Punishments

In ancient Rome, some criminals received a scourging, which is a type of corporal punishment administered by what device?

whip (lash, rod)

1 2 Medical Treatment

Name the procedure of using a very hot or very cold instrument to destroy abnormal tissues or stop bleeding.

cauterization (cauterizing)

1 3 Architectural Forces

Name the outward or lateral force produced by the weight of an arch or vault.

thrust

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Round Number 3

TOSS-UP

1 Weather Lore

What is the last word in this old proverb about weather?

Rain before seven, clear before ...

eleven

2 Vertebrate Anatomy

In contrast to the circulatory system found in mollusks and arthropods, vertebrates have what kind of circulatory system?

closed

3 Archaeological Techniques

The process of recovering small particles of organic material by immersing sediment samples in water and skimming off whatever remains on the surface is called what?

flotation

4 Smuggling

The smuggling of people across international borders is also called human what?

trafficking

5 Codes

What is the name for the code in which a dollar sign is 36, a period is 46, an 8 is 56, and an upper case B is 66?

ASCII

BONUS

1 Letters

Who wrote this note in 1901?

You estimate the average cost of these libraries at \$80,000 each, or \$5,200,000 in all. If New York furnishes the sites for those branches for the benefit of the masses, I should esteem it a privilege to furnish the money.

Andrew Carnegie

2 Taxonomy Etymology

What taxonomic class was named for a girl in Greek mythology who challenged Athena to a weaving contest and, as a result, was turned into a spider?

arachnid

3 Acceleration

A body dropped from a height of 19.6 meters will strike the ground after how many seconds?

2

4 Eye Problems

Sometimes, when sweat gets into people's eyes, their eyes start to burn like crazy. What substance in sweat probably causes this?

salt

5 Mining

Explosions in coal mines are usually caused by the ignition of either coal dust or what gas?

methane

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Round Number 3

TOSS-UP

6 Light

An iron rod heated to about 627 degrees C has a red color. What color is the light emitted from the same rod when heated to 1550 degrees C?

white

7 Bradbury

Initially published in Britain as "The Silver Locusts," what name was given in the U.S. to this collection of stories by Ray Bradbury about nearby planetary colonization?

The Martian Chronicles

8 Amendments

John Rockefeller said this about what amendment in 1932?

I hoped that it would be supported by public opinion and the day would come when the evil effects of alcohol would be recognized. I have slowly and reluctantly come to believe that this has not been the result. Instead, drinking has generally increased. The speakeasy has replaced the saloon.

18th Amendment

9 American Territories

Name the territory that was immediately to the northwest of the state of Wisconsin in 1850.

Minnesota Territory

10 Lines of Centers

If the line of centers of two circles is 23 and their radii are 6 and 11 centimeters, then the circles are separated by how many centimeters?

6

BONUS

6 Taxation

In what kind of income taxation system would there be no deductions and one rate that applies to all taxpayers?

flat tax

7 Expletives

What expletive is used repeatedly in the opening of "A Tale of Two Cities"?

it

8 Plant Life

These are varieties of what kind of plants?
adder's-tongue, moonwort, staghorn,
maidenhair, osmunda

ferns

9 Slopes

What is the slope of any line that is parallel to the line described by this equation?
 $y = 2x + 3$

2

10 Proverb History

What colonial American is credited with a later version of these statements?

-A penny spared is twice got.

-By the same proportion that a penny saved is a penny gained, the preserver of books is a mate for the compiler of them.

-This I did to prevent expenses, for a penny saved is a penny got.

Benjamin Franklin

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Round Number 3

TOSS-UP

1 1 Vessels

Ancient Phoenicians, Greeks, and Romans had what kind of vessels characterized by one or two masts and three rows of oars?

triremes

1 2 Fungi

A circle of mushrooms is called what kind of ring?

fairy ring

1 3 Journalism

According to the editor, Charles Dana, when a dog bites a man, that is not news. What did he say is news?

When a man bites a dog.

BONUS

1 1 Naval Battles

Called "the most stunning and decisive blow in the history of naval warfare," in what battle did American forces soundly vanquish the Japanese fleet about six months after the Pearl Harbor attack?

Battle of Midway

1 2 Surface Changes

What term for the discolored exterior of a stone resulting from exposure to air and sunlight also indicates the thin greenish layer of copper sulfate that forms on copper or bronze as a result of corrosion?

patina

1 3 Allusions

Referring to the biographer of Samuel Johnson, an author who writes about a friend in glowing and admiring terms is called that person's who?

Boswell

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Round Number 4

TOSS-UP

1 The Senate

Occasionally, during the course of debate about legislation in the Senate, members have launched into endless discussions of the Bible, Shakespeare, or baseball. One even read names from a telephone book. These senators were using what technique to kill legislation?

filibuster

2 Snow

What is the term for an overhanging formation of windblown snow?

cornice

3 Peninsulas

These are peninsulas of what country?

Kola
Chukchi
Kamchatka

Russia

4 Heat

How much heat is needed to raise one gram of water one degree Celsius?

1 calorie

5 Legendary Locations

What is the popular name for the region in which Flight 19, the Star Tiger, the Mary Celeste, the S.S. Marine Sulphur Queen, and the U.S.S. Cyclops all disappeared without a trace?

Bermuda Triangle (Devil's Triangle)

BONUS

1 Philosophy

The Ubermensch, an ideal human being of superior intellectual and moral attainment, was a concept promoted by what German philosopher?

Friedrich Nietzsche

2 Resources

What resource of the Caspian Sea area is valued at up to \$4 trillion?

oil (natural gas)

3 Medieval Concepts

In medieval times, what was the term for the acknowledgment by a vassal of allegiance to his lord?

homage

4 Factorials

What is the product of 5 factorial multiplied by 5 factorial?

14400

5 Passings

In 1977, who died in a bathroom at Graceland in Memphis, Tennessee?

Elvis

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Round Number 4

TOSS-UP

6 Angles

The largest angle in a triangle exceeds the smallest angle by 60 degrees. Find the largest angle if the remaining angle is 3 times the smallest angle.

84 degrees

7 Novels

This is from what American novel?

"Mother," said little Pearl, "the sunshine does not love you. It runs away and hides itself, because it is afraid of something on your bosom. It will not flee from me, for I wear nothing on my bosom yet!"

"Nor ever will, my child, I hope," said Hester.

The Scarlet Letter

8 Progressions

What type of mathematical progression has terms that are the reciprocals of those in an arithmetic progression?

harmonic progression

9 Vision

What is the term for the sharpness or clarity of vision?

acuity

10 Powerful Fiction

Name the daughter of a Congregationalist minister whose novel published in the 1850s enraged Southern slaveholders and ignited anti-slavery passions among Northerners.

Harriet Beecher Stowe

BONUS

6 Insurrection

In the Easter Uprising of 1916, the Irish Republican Brotherhood staged an armed rebellion against the control of Ireland by what country?

Great Britain

7 French Historical Passages

This excerpt refers to what historical figure?

She finally convinced the Dauphin of her mission and, in male attire, led the French troops to victory at Orleans.

Joan of Arc

8 Christian Theology

Since the early days of the Christian church, the seven deadly sins have been balanced by the seven cardinal what?

virtues

9 Relative Dating

The rocks in the lower layers of the Grand Canyon correlate with certain rocks in Wales, a region known to the ancient Romans as Cambria. The rocks in both these sites were laid down during what geological period?

Cambrian period

10 Means

Determine four arithmetic means between 11 and -79.

-61, -43, -25, -7

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Round Number 4

TOSS-UP

1 1 State Parks

These are parks in what U.S. state?

Elephant Butte Lake State Park
Rio Grande Nature Center State Park
Pancho Villa State Park
Sumner Lake State Park

New Mexico

1 2 Not Much Freeboard

Consisting entirely of coral atolls with a maximum elevation of about 2.3 meters, what nation south of India is the lowest country on the planet?

Maldives

1 3 Territories

This is about what U.S. territory?

It is a group of five volcanic islands and two coral atolls 2600 miles south of Hawaii in the South Pacific.

American Samoa

BONUS

1 1 Ancient History

What ancient people that inhabited the western coast of the Fertile Crescent were famed as the "traders in purple"?

Phoenicians

1 2 Sectors

To the nearest whole number, what is the area of a sector of a circle with a radius of 4 centimeters and a central angle of 143 degrees?

20 square cm

1 3 Convictions

In 2016, a United Nations tribunal at The Hague convicted Radovan Karadzic of genocide and war crimes for the 1995 massacre of nearly 8000 Muslim men and boys in what Balkan country?

Bosnia

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Round Number 5

TOSS-UP

1 Battle Traditions

The Plains Indians had a tradition of touching an enemy with a hand, a bow, or a stick and then escaping unharmed. This practice was called what?

counting coup

2 Other Bases

What is the decimal equivalent of the base 4 number 2313?

183

3 Aviation Firsts

In 1783, the Montgolfier brothers launched the first manned flight in a hot-air balloon from what European city?

Paris

4 Iceland

In 1944, Icelanders voted to become a republic and end their union with what Scandinavian country?

Denmark

5 TV Tests

What is the term for a television program produced as a prototype of a possible series for a network?

pilot

BONUS

1 War Quotes

This 1965 passage is about a member of what military group?

Miss Hang commands the women's corps of the Nanh Ngang militia. She led a covey of most nubile little girls into foxholes who then pointed their rifles at the sky.

Vietcong

2 Infestations

Various gastrointestinal symptoms afflict the hosts of what kind of worm that may grow to fifteen feet or more in length?

tapeworm

3 Faults in Composition

What common fault regarding the use of metaphors is illustrated by this line?

The ship of democracy almost sank in the flames of barbarism.

mixed metaphor

4 Friction

You are pulling a 50-pound crate across a level floor at a constant speed. If the coefficient of friction is .4, then what is the force of the kinetic friction?

20 pounds

5 Radiation

While the radiation from the Sun with a short wavelength is called ultraviolet radiation, once that energy is re-radiated from the Earth's surface, it has a long wavelength and is known as what kind of radiation?

infrared radiation

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Round Number 5

TOSS-UP

6 19th-Century Lawyers

Georges Picquart was himself imprisoned because of his ardent defense of what French army officer unjustly convicted of treason in 1894?

Alfred Dreyfus

7 Historic Sites

The Sand Creek Massacre National Historic Site is in what state?

Colorado

8 Acronyms

With respect to suffrage, for what does the acronym "OMOV" mean?

one man, one vote

9 Sovereignty

In 1978, Dominica in the Caribbean gained its independence from what country?

Great Britain (England)

10 Large Families

He had fifty-seven children with 16 of his 27 wives. Name this American religious leader.

Brigham Young

BONUS

6 Neutrality

Three of the five western European countries that remained neutral during the Second World War have names beginning with what letter?

S

7 Myths

What did the Greeks call the mythical woodland spirits with bristling hair, goat-like ears, short tails, and a particular fondness for wine and women?

satyrs

8 Historical Novels

After sailing on a 150-day voyage aboard the Pilgrim around Cape Horn to California and back to the East Coast, Richard Dana wrote what novel?

Two Years Before the Mast

9 Amazing Anagrams

"A famous German waltz god" is an anagram for what prolific 18th century Austrian composer?

Wolfgang Amadeus Mozart

10 Ceramics

What adjective used in ceramics means that a material has glasslike properties including high gloss and hardness?

vitrified

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 5

TOSS-UP

1 1 Plant Structures

Name the slender coiling structures of plants sensitive to contact stimuli and which attach the plant to a support.

tendrils

1 2 Legislatures

Most state legislatures consisting of two houses are described by what word?

bicameral

1 3 Mountain Men

Although a few were held in Idaho and Utah, most of the rendezvous of the trappers and mountain men took place at various sites in what present-day state?

Wyoming

BONUS

1 1 Eastern Europe

During the 18th century, what European kingdom was larger than any other European country except Russia and had a greater population than any other European country except France?

Poland

1 2 Gates

Name the imposing gate that stood between East and West Berlin during the Cold War.

Brandenburg Gate

1 3 Statistics

What is the statistical mode of these scores?

12 15 11 12 9 12 13

12

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 6

TOSS-UP

1 Court Questions

How are these questions classified in legal proceedings?

- Didn't the defendant seem to you to be going too fast for the limited visibility?
- Will you ever stop selling rancid bacon?

leading question

2 Alloys

What metal is in all of these alloys?
nicrosil, nilil, nitinol, nichrome

nickel

3 Areas

The area of what plane figure equals pi times its semi-major axis times its semi-minor axis?

ellipse

4 Literary Allusions

What names for any two things that are hard to tell apart are also those of identical twins in "Through the Looking Glass"?

Tweedledum, Tweedledee

5 English Novels

This is from what story?

Also, when we played at cards, Miss Havisham would look on with a miserly relish of Estella's moods, whatever they were.

Great Expectations

BONUS

1 Naval Ships

These are what kind of ships?

Midway
Ranger
Saratoga
Kennedy
America

aircraft carriers

2 Battle Songs

These words are from a song about what battle?
In 1814 we took a little trip along with Colonel Jackson down the mighty Mississippi.

Battle of New Orleans

3 Characters

Name the creator of these characters.

Jim Smollett, Jim Hawkins, Long John Silver

Robert Louis Stevenson

4 Political Get-Togethers

Those who met at the Hartford Conventions from 1814 to 1815 were linked to what political party?

Federalist

5 Poetry

In the study of poetry, these are types of what?
dactylic, trochaic, anapestic, iambic

meter

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 6

TOSS-UP

6 Readmission

After the Civil War, the former Confederate states were re-admitted to the Union on the condition that they ratify which amendment?

14th

7 Alloys

While the primary metal in an alloy is called the solvent, the secondary constituents are called what?

solutes

8 Australia

On an alphabetical list of Australian states, which is last?

Western Australia

9 Ratios

You have a quart bottle with a mixture that is $\frac{1}{3}$ acid and $\frac{2}{3}$ water. You also have a half gallon bottle with a mixture that is $\frac{3}{4}$ acid and $\frac{1}{4}$ water. If you empty them both into a gallon jug, what is the ratio of acid to water in the jug?

11 to 7

10 Purchasing Problems

Mrs. Reese bought twenty ornate Great Auk mugs for a total cost of \$980, including some large ones for \$50 and some small ones for \$40. How many of the large ones did she buy?

18

BONUS

6 Lawmaking

In what form of lawmaking may an organization draft a proposed law, obtain a number of signatures on the petition supporting it, and have it voted on by the public?

initiative

7 Earth's Spheres

What sphere consists of those parts of the Earth's surface including sea ice, lake ice, river ice, snow cover, glaciers, ice caps and ice sheets, and frozen ground?

cryosphere

8 Aerial Perspective

In aerial perspective at midday, as the distance between the viewer and an object increases, the color of the object tends to shift towards what color?

blue

9 Island History

At the end of the American Revolution, the British resettled thousands of American Loyalists on what group of islands east of the Florida Keys and north of Cuba?

the Bahamas

10 Sports Stories

These books are about what sport?

The Breaks of the Game
A Season on the Brink
Miracle on 49th Street
Playing for Keeps
Night Hoops
Fab Five

basketball

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 6

TOSS-UP

1 1 **Melosis**

The exchange of genetic material between paired chromatids of homologous chromosomes is called what?

crossing over (crossover)

1 2 **Betrothals**

What kind of marriages are based on parental decisions rather than the couple's preferences?

arranged marriages

1 3 **Long Words**

What is the longest word in Edgar Allan Poe's poem, "The Bells"?

tintinnabulation

BONUS

1 1 **War Reads**

These books are set during what war?

Northwest Passage

Montcalm and Wolfe

The Last of the Mohicans

The Deerslayer

The Pathfinder

French and Indian War

1 2 **Government**

In contrast to a unitary government in which a central authority holds the power or a confederation in which the member states are clearly dominant, what "ism" indicates a type of government where power is divided between the national government and other governmental units?

federalism

1 3 **Myths**

To whom do the personal pronouns refer in this?

Unlike her sisters Euryale and Stheno,
she was immortal.

Medusa

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 7

TOSS-UP

1 Tides

The greatest tidal range on Earth occurs in a bay of what country?

Canada

2 Africa

The coast what country extends from Mozambique to Namibia?

South Africa

3 Regional Ailments

In Byelorussia, since 1986, thyroid-related ailments doubled, cases of anemia jumped 700 percent, and birth defects rose 200 percent as a result of a nuclear disaster at what site?

Chernobyl

4 Natural Rights

Name any of the natural rights enumerated in the Declaration of Independence.

life, liberty, pursuit of happiness

5 Slaughters

Between 1915 and 1920, more than a million Armenians were murdered by the government of what country?

Turkey (Ottoman Empire)

BONUS

1 Extremophiles

What category of extremophiles are adapted to high temperatures?

thermophiles (hyperthermophiles)

2 Mythical Symbols

Name the item borne by Poseidon as a symbol of his sovereignty.

trident

3 Variant Meanings

What term can indicate someone who works with another person or group on a project or one who cooperates treasonably with his country's enemies?

collaborator

4 Empires

What was the successor state to the Roman Empire after the fall of the Western Roman Empire in 476 AD?

Byzantine Empire

5 Ocean Zones

Insufficient light penetrates the ocean in the aphotic zone to permit photosynthesis to occur. But photosynthesis does occur in the region where sufficient sunlight does penetrate the water. Name this zone.

euphotic zone

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 7

TOSS-UP

6 British Commanders
What British general's most famous battles were against George Washington's forces on Long Island in 1776, his defeat of Nathanael Greene in 1780, and his surrender at Yorktown in 1781?

Charles Cornwallis'

7 Polyps
Colonies of polyps produce a limestone formation called what?

coral

8 Ecology
Along the southern California coast, vast tracts of giant kelp have been destroyed because they have been gnawed through at their bases. Population explosions of what echinoderm formerly controlled by sea otters are responsible for this?

sea urchins

9 Islands
Coney Island off the New York coast and Padre Island off Texas are good examples of what kind of islands?

barrier islands

10 Probability
When pair of dice are rolled, what is the probability of not rolling doubles?

BONUS

6 U.S. Rivers
The Allegheny River flows through which two states?

New York, Pennsylvania

7 Operas
In what opera by Charles Gounod is Mephistopheles a central character?

Faust

8 Syndromes
These are types of what common clinical syndrome?
insulin
septic
traumatic

shock

9 Metalworking
Name the process of shaping cold metal with lathes, milling machines, and drills.

machining

10 Structures
What is the name for a freestanding pavilion structure often found in parks and gardens?

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 7

TOSS-UP

1 1 Treaties

According to the terms of the treaty that gave Britain control of that part of the Oregon Country north of the 49th parallel, Britain also gained control of what major island?

Vancouver Island

1 2 Intelligence

In the U.S., there are three principal intelligence agencies including the Central Intelligence Agency, the Defense Intelligence Agency, and what other?

National Security Agency

1 3 Photography

You take a flash photograph and immediately hear a whining sound in the camera's strobe that lasts for several seconds. What kind of electronic device is charged?

capacitor

BONUS

1 1 Proverbs

Complete this proverb.
Revenge is a dish best served ...

cold

1 2 Liberties

This line is similar to another famous saying about what right?

I detest what you write, but I would give my life to make it possible for you to continue to write.

freedom of speech

1 3 Allies

The Allies fought against the Central Powers in World War I and against what other powers in World War II?

Axis

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 8

TOSS-UP

1 Waterfalls

Name the Venezuelan waterfall that is sixteen times higher than Niagara Falls.

Angel Falls

2 Ancient Cities

Aleppo is over 4000 years old and is the second largest city of what modern country?

Syria

3 Islands

The eastern part of Tierra del Fuego belongs to what country?

Argentina

4 Moslem Fanatics

Name the military and religious order founded around 1090 in Persia that became notorious for secret murders in blind obedience to their chief.

Assassins

5 Change of State

The amount of heat that must be added to one kilogram of a substance at its melting point to change it from a solid to a liquid is its heat of what?

fusion (or enthalpy)

BONUS

1 Astronomical Symbols

A circle with a dot at its center is the symbol for what heavenly body?

the Sun

2 Asian Bays

What enormous body of water is adjacent to Chennai, otherwise known as Madras, India?

Bay of Bengal

3 Paleontology

What is the more correct name for duck-billed dinosaurs?

hadrosaurs (hadrosaurids)

4 Lakes

What Oregon lake, six miles across and half a mile deep, was formed 7000 years ago when Mt. Mazama erupted?

Crater Lake

5 Worms

What is the collective name for parasitic flatworms that live in the digestive systems of their hosts, have tiny heads called scolices, and have bodies divided into sections called proglottids?

tapeworms

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 8

TOSS-UP

BONUS

6 New England Nicknames

With a chicken as its state bird, what small New England state with a mean elevation of 200 feet is called the Ocean State?

6 Bights

The Great Australian Bight is contiguous with what ocean?

Rhode Island

Indian Ocean

7 Bouquet Making

How many different bouquets can you make by choosing 3 out of 6 dahlias, 2 out of 4 roses, and 1 out of 3 petunias?

7 Math Sequences

What is the next number in this sequence?

3 5 11 29 ..

360

83

8 River Intersections

Name the largest river intersected by the tropic of Cancer.

8 Literary Forms

Dryden's "Absalom and Achitophel" illustrates what literary form given this information?

King David represents Charles II. Absalom represents his son, the Duke of Monmouth.

The story parallels the rebellion of the duke against the king.

Nile

allegory

9 Solutions

If a gas is dissolved in a liquid, when the temperature of the solution is increased, what happens to the solubility of the gas?

9 Boondoggles

A major 19th-century French transportation boondoggle was led by the diplomat, Ferdinand de Lesseps. Name this project that was supposed to dramatically reduce the length of a voyage between New York and San Francisco.

It decreases.

Panama Canal

10 Message Control

During the late afternoon of what day of the week do businesses and governments prefer to release unpopular news stories to minimize their effect?

10 Boxes

You are making a box from a 9-by-12-inch sheet of cardboard by folding up and taping the sides. If the sides are 2 inches high, what is the volume of the open box?

Friday

80 cubic inches

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 8

TOSS-UP

1 1 Minerals

What mineral was named because of its unique intense azure-blue color?

azurite

1 2 Disorders

Anorexia nervosa is loss of what instinctive physical desire?

appetite

1 3 Georgia History

What major city in Georgia was first called Marthasville and later, Atlantica-Pacific?

Atlanta

BONUS

1 1 Ratification

A new amendment can be added to the Constitution if how many states ratify it?

38

1 2 Implementers

All of the agencies and departments that implement national policies and regulations make up the federal what?

bureaucracy

1 3 Fictional Torture

In the novel, "1984," where is the Ministry of Love's torture chamber located?

Room 101

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 9

TOSS-UP

1 It's a Pain

These can all be causes of pain in what part of the body?

ankylosing spondylitis
sciatica
scoliosis
herniated disk
spinal stenosis

back

2 Sayings

How is this saying usually stated?

Rectitude cannot be formed through binary transgressions.

Two wrongs do not make a right.

3 American Drama

What playwright wrote this?

They're ornaments mostly! Most of them are little animals made out of glass, the tiniest little animals in the world. Mother calls them a glass menagerie!

Tennessee Williams

4 Explorers

Who said this?

If it is a shame to be the second man on Mount Everest, then I will have to live with this shame.

Tenzing Norgay

5 Ancient Enemies

When Xerxes ascended to the throne, what people were his chief enemy?

Greeks

BONUS

1 English Poetry

What word completes this verse by William Henley?

It matters not how strait the gate,
How charged with punishments the scroll,
I am the master of my fate;
I am the captain of my ...

soul

2 Fantasies

Fairy children who are left in the place of an abducted human children are called what?

changelings

3 Levers

What class of lever has these characteristics?

-the fulcrum is at one end
-the effort is at the other end
-the resistance is between the ends

second class

4 Ancient Greece

What city on Crete was the site of the labyrinth of Daedalus and the palace of King Minos?

Knossos

5 Murder Trials

After all of the killings in the Lincoln County War, the only conviction that ever resulted was for the murder of Sheriff William Brady by what young gunman?

Billy the Kid (William Bonney, Henry

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 9

TOSS-UP

BONUS

6 Chemicals

Halons, carbon tetrachloride, methyl chloroform, and what other group of chemicals are stratospheric ozone depleters?

chlorofluorocarbons (CFCs)

7 Shakespearean Compliments

This quote is from what play?

He was a man, take him for all in all. I shall not look upon his like again.

Hamlet

8 Wars

Toward the end of the 19th century, what two wars were fought between the British and the settlers of Dutch origin in South Africa?

Boer Wars

9 Architects

Name the best-known building designed by the architect James Hoban in America's capital city.

White House

10 Anatomy

Name the tube between the larynx and the lungs.

trachea

6 Coal

Which is the only type of coal that can be considered as metamorphic?

anthracite

7 Genetics

What biological process results in two new daughter cells that are functionally and structurally like the parent cell?

mitosis

8 Newsworthy Sheep

In 1997, Dolly was instantly famous world-wide when she became the first mammal to be reproduced through what process?

cloning

9 Poisonous Minerals

Cinnabar is poisonous because of its high content of what metallic element?

mercury

10 Indian Artifacts

What Native American device used to process grain is most similar to a mortar in which substances are ground with a pestle?

metate

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 9

TOSS-UP

1 1 Medical Adjectives

What medical adjective means "not malignant"?

benign

1 2 The Muses

Which Muse is most closely associated with the work of Gene Shoemaker, Nicolaus Copernicus, Edmund Halley, and Carl Sagan?

Urania

1 3 Speed

At 0 degrees C, sound moves through the air at 742 mph. If a spacecraft reenters the atmosphere at 20,000 mph, the spacecraft is traveling at what integral Mach number?

27

BONUS

1 1 Waterways

The establishment of what channel made it possible for ships with up to 27-foot drafts to travel from Montreal to Lake Superior?

St. Lawrence Seaway

1 2 Defense Mechanisms

An individual is using what defense mechanism when he conceals his unacceptable desires and impulses by behavior in an apparently opposite manner?

reaction formation

1 3 Speedy Mammals

The second fastest mammal lives in the Rocky Mountain states and has been clocked at over 60 miles per hour. Name this antelope.

pronghorn

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 10

TOSS-UP

1 Vocabulary of Youth

"Youth" applies to boys and girls up through what birthday?

18th

2 Bad Gas

What colorless, flammable, poisonous gas with a characteristic rotten-egg smell is especially abundant in the Black Sea?

hydrogen sulfide

3 Borrowed Words

These words came into English from what language?

taiga, mammoth, pogrom, intelligentsia, balaclava, beluga, kulak, babushka

Russian

4 Halogens

What is the most abundant halogen in seawater?

chlorine

5 Alloys

If chromium, nickel, and molybdenum are added to steel, what rust-free steel alloy is produced?

stainless steel

BONUS

1 Minerals

What mineral, a hydrated phosphate of aluminum and copper, is used in Indian jewelry of the American Southwest?

turquoise

2 Songs

Name the only state whose official state song was originally composed for a Broadway musical.

Oklahoma

3 Stroke

Motor functions on the left side of the body are damaged when blood vessels are blocked or ruptured on which side of the brain?

right side

4 Geological Analogies

The sunroof on a car is a window that opens by sliding backward until it disappears under the fixed roof area at the rear. This disappearance is analogous to what process in plate tectonics?

subduction

5 Gametes

Heterogametes are either of two conjugating gametes that differ in structure, such as the small, motile male spermatozoon and the larger, nonmotile what?

ovum

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 10

TOSS-UP

6 Meteorology

What is a synonym for "storm tide" or "hurricane wave"?

storm surge (storm wave)

7 Rulings

In what Supreme Court case of 1954 did Chief Justice Earl Warren rule for a unanimous court that separate educational facilities for blacks and whites are inherently unequal?

Brown v. Board of Education

8 Psychological Phenomena

The phenomenon "deja vu" comes from French words meaning "already" and what?

seen

9 Lewis Carroll

In "Jabberwocky," what kind of blade went snicker-snack?

vorpel blade

10 Latin

The Latin term "argentum" indicates what metal?

silver

BONUS

6 Acceleration

A biker who is rolling along at 27 meters per second applies the brakes and comes to a complete stop in 15 seconds. What is the acceleration?

-1.8 meters per second per second

7 House Committees

These are subcommittees of what House of Representatives standing committee?

Conservation and Forestry
Biotechnology, Horticulture, and Research
General Farm Commodities

Agriculture

8 Fruits

In 1848, Enoch Bartlett began distributing to his Massachusetts customers what kind of fruit that bears his name?

pears

9 Tragedies

Investigations after the accident showed that NASA had abandoned "good judgment and common sense" regarding safety problems that led to the death of six astronauts and what New Hampshire teacher in 1986?

Christa McAuliffe

10 The Ear

The cochlea is one of the two major structures of the inner ear. Name the other.

semicircular canals

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 10

TOSS-UP

1 1 Archaeology

These large two-handled vessels used in ancient Greece and the classical world were used as containers for foodstuffs. Many had pointed bottoms so they could be sunk into the ground to keep produce cool. Name them.

amphorae

1 2 Fugitives

The FBI's roster of extremely dangerous criminals still at large is known as what list?

most wanted list

1 3 Mollusks

What adjective indicates a mollusk with two calcareous hinged shells?

bivalve

BONUS

1 1 Polar Zones

The regions where, on at least one day of the year, the Sun does not set are the polar zones. Name the parallel of latitude that marks the southernmost edge of the northern polar zone.

Arctic Circle

1 2 Literary Devices

What figure of speech is used in this line?
No man is an island.

metaphor

1 3 Legends

He is characterized as a Slav with a body of steel. He can make eight rails at once by squeezing hot steel through his fingers. Name this hero of the steelworkers from Monongahela Valley in Pennsylvania.

Joe Magarac

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 11

TOSS-UP

1 World War II Battles

For the first time in history, two military fleets fought an engagement without surface ships exchanging a single shot. Name this South Pacific battle.

Coral Sea

2 Asian Rivers

The lowland of what Asian country is centered on the valleys of the Irrawaddy and Sittang rivers and their tributaries?

Burma (Myanmar)

3 Queens

What Hawaiian queen was forced to abdicate in 1893?

Liliuokalani

4 Biological Warfare

During Pontiac's War, after the siege of Fort Pitt failed in 1763, the fort's commander provided some blankets to the attacking Indians that were intentionally riddled with the virus of what highly infectious disease?

smallpox

5 Water

Water, whether taken from Arctic ice or tropical rain or distilled from plants, always has an exact ratio of hydrogen to oxygen by weight. What is that ratio?

BONUS

1 Space Spectaculars

In 2015, what NASA spacecraft provided high-resolution close-ups of the dwarf planet Pluto?

New Horizons

2 The Colonial Period

Name the extensive, westernmost Pacific archipelago that was once part of New Spain.

Philippines

3 Legal Cases

In 1733, after printing stories that accused the colonial governor of rigging elections and various other crimes, the publisher of the New York Weekly Journal was arrested and tried for seditious libel. At his trial, the judge ordered the jury to convict, but they returned a verdict of not guilty. Who was the defendant?

John Peter Zenger

4 Batteries

In relation to automotive batteries, for what does the abbreviation RC stand?

reserve capacity

5 Newspapers

Name the kind of newspaper in which you would be likely to find these headlines.

Dolphin Grows Human Arms
Satan's Skull Found in New Mexico
Man Fries Eggs on His Bald Head
Alien Bible Translated

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 11

TOSS-UP

6 Meteorological Geography

What name, taken from the province between British Columbia and Saskatchewan over which it forms, is given to a low pressure area that develops over the eastern slope of the Canadian Rockies?

Alberta low

7 Plant Reproduction

Similar to a tuber or corm, what underground storage organ used for propagation consists of fleshy scales or fleshy modified leaves surrounding a central bud?

bulb

8 Novels

In a novel by Mark Twain, what was the home state of Hank Morgan, a man who is somehow transported back to medieval England?

Connecticut

9 Constitutional Amendments

A person is on trial for kidnapping little Annie Jones. What amendment would prohibit the jury deciding this case from being all members of Annie's family?

seventh amendment

10 Traditions

What is the English translation of this annual holiday in Mexico?
El Día de los Muertos

The Day of the Dead

BONUS

6 Chemical Reactions

During what general type of chemical reaction are electrons lost from an atom so that its charge becomes more positive?

oxidation

7 Geological Phenomena

What occurred at these sites?
Yakutat Bay, Alaska, in 1899
Mexico City, Mexico, in 1985
Northridge, California, in 1994
Kobe, Japan, in 1995
Seattle, Washington, in 2001

earthquakes

8 Fields of Learning

What general field of study includes ethics, epistemology, logic, ontology, aesthetics, and metaphysics?

philosophy

9 Radiation

A Geiger counter will continue to click at an infrequent but definite rate even though no radioactive material is present. Name for the high energy particles, apparently extraterrestrial in origin, that cause this.

cosmic rays

10 The Federal Reserve

The governors of the Federal Reserve System are confirmed by what body?

U.S. Senate

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 11

TOSS-UP

1 1 Proverbs

How is this proverb from "Don Quixote" usually translated?

No es oro todo que reluce.

All that glitters is not gold.

1 2 The Atmosphere

At altitudes of more than 200 kilometers above the Earth's surface, gases only exist in the form of positively-charged atoms or molecules called what?

ions (cations)

1 3 Mountain Ranges

What section of the Alps is between Tyrol in western Austria and Bavaria in Germany?

Bavarian Alps

BONUS

1 1 Dinosaurs

Ornithischian dinosaurs had characteristics similar to what modern creatures?

birds

1 2 Languages

The Anglo-Saxon language is also known as Old what?

English

1 3 Surfaces

Name the plane surface formed by cutting a solid such as a ship, a planet, a dog, or a house at right angles to its longest axis.

cross section

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 12

TOSS-UP

BONUS

1 Conic Sections

What conic section is the locus of points in a plane that are equidistant from both the directrix and the focus?

parabola

2 Symbols

What was created by the Philadelphia artisans John Pass and John Stow that became an iconic symbol of American autonomy?

Liberty Bell

3 Heraldry

In traditional heraldry, because of its color, the ruby represents which planet?

Mars

4 Conclaves

What chapel is used for papal conclaves?

Sistine Chapel

5 Haitian Folklore

What is a dead person called who has been revived by a voodoo sorcerer?

zombie

1 Deserts

What desert covers 3.5 million square miles?

Sahara

2 Cyprus

What country administers the northern part of Cyprus?

Turkey

3 Invasions

Troops from what other nation joined the North Koreans in their 1951 invasion of South Korea?

China

4 Poetry

What poem by William Henley with a Latin name meaning "unconquered" ends with these lines?

It matters not how strait the gate
How charged with punishment the scroll,
I am the master of my fate,
I am the captain of my soul.

Invictus

5 Invasions

The German invasion of what Eastern European country in 1939 began the Second World War?

Poland

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 12

TOSS-UP

6 Great Cities
These sites are in what city?
Hippodrome
Sheremetyevo Airport
Bolshoi Theater
Pushkin Museum

Moscow

7 Symbols
What symbol that once was part of the English alphabet is an alteration of the phrase, "and per se and"?

ampersand

8 Petrology
Rock fractures displaying no movement perpendicular to the fracture surface are called what?

joints

9 Central America
What Central American country has the shortest coast on the Caribbean Sea?

Guatemala

10 Volcanic Parks
One of the world's largest dormant volcanic craters is in Haleakala National Park on which Hawaiian island?

Maui

BONUS

6 Worms
The phylum Platyhelminthes includes flatworms, flukes, and what other kind of parasitic worms?

tapeworms

7 Igneous Formations
The Deccan Traps are an enormous volcanic feature on a plateau in what country?

India

8 Greek Myths
If you had the head, arms, and chest of a man and the body and legs of a horse, what mythical creature would you be?

centaur

9 Commanders
Who was the commander of the English army at the Battle of Hastings?

Harold II (or Harold)

10 Villains
Fernand Mondego is one of the three villains in what famous French novel?

The Count of Monte Cristo

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 12

TOSS-UP

1 1 Cabinet Members

What cabinet post was occupied by these men?

Robert McNamara, Melvin Laird, Elliot Richardson, Donald Rumsfeld, Robert Gates

secretary of defense

1 2 Peninsulas

The Sinai Peninsula divides the northern part of what sea into the shallow Gulf of Suez to the west and the deep Gulf of Aqaba to the east?

Red Sea

1 3 Consumers

"Oophagy" indicates the eating of what?

eggs

BONUS

1 1 Defiance

What form of resistance is most famously associated with Gandhi's opposition to British rule in India?

nonviolent (civil disobedience)

1 2 Argentina

The area between the Parana and Uruguay rivers in Argentina has been given the same name as what ancient region between the Tigris and Euphrates rivers?

Mesopotamia

1 3 Ceramic Techniques

Name the technique of moving the clay onto a symmetrical rotating axis in the middle of a wheel head so it can be thrown.

centering

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 13

TOSS-UP

1 Science Fiction

Arthur Clarke's "Rendezvous with Rama" has been described as a Mary Celeste mystery to the nth power. What was the Mary Celeste?

a ship (an abandoned ship, brigantine)

2 Galaxies

What is about 2 million light years away, visible to the unaided eye, and the largest member of the Local Group galaxies?

Andromeda

3 Stories

He is an indolent and good-natured fellow who went shooting in the Catskills. There he helps a stranger carry a keg over rocks and cliffs. Name this character who drinks some special liquor and sleeps through the Revolutionary War.

Rip Van Winkle

4 State Borders

Name the geographically smallest state bordering Maryland.

Delaware

5 Traditions

What traditional Japanese robe is worn mainly during formal occasions such as weddings, tea ceremonies, and funerals?

kimono

BONUS

1 Korean War

No officials from South Korea signed the armistice of 1953 ending the Korean War. That agreement was actually signed only by officials from the United Nations Command, North Korea, and what other Asian country?

China (People's Republic of China)

2 Injuries

What is the name for the injury resulting from a part of the body being caught and squeezed between two objects?

crushing injury

3 Epigrams

What word completes this poem about epigrams?
The qualities rare in a bee that we meet,
In an epigram never should fail.
The body should always be little and sweet,
And the sting should be left in the ...

tail

4 Statistics

What is the range of these data points?
26, 45, 54, 76, 83, 88, 94

68

5 Solstices

Each solstice is how many degrees from the equinoxes?

90

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 13

TOSS-UP

6 **The Seabed**

In shallow ocean waters, the drifting of what causes seabed gouging?

icebergs

7 **Exponents**

What is the difference between 2 to the 9th power than 9 to the 2nd power?

431

8 **Meteorology**

Cyclones are weather systems having low pressure at their centers. They spin in a counterclockwise direction in the Northern Hemisphere. Name the weather systems in the same hemisphere that spin in a clockwise direction.

anticyclones

9 **Sculptors**

Gutzon Borglum, the sculptor of Mount Rushmore, also worked on what other massive project near Atlanta, Georgia?

Stone Mountain

10 **Caribbean Geography**

The name of what Jamaican town comes from the Spanish words "manteca bahia" which means "Bay of Lard"?

Montego Bay

BONUS

6 **Asia**

What country has a 3000-km border on its north with Russia, a 150-km border on its west with Kazakhstan, and a 4760-km border on its south with China?

Mongolia

7 **Oceania**

What Pacific island visited by Samuel Wallis, James Cook, and William Bligh and annexed by France in 1880 was written about by Robert Louis Stevenson and inspired paintings by Paul Gauguin?

Tahiti

8 **Radiation**

The Earth usually has how many Van Allen belts?

2

9 **Adaptations**

A morphological adaptation of living things to blend in with their environments is called what?

camouflage (protective coloration)

10 **Mathematical Properties**

Use the symbols p and q to represent any two real numbers and express the commutative property of addition.

$p + q = q + p$

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 13

TOSS-UP

1 1 Lakes

Located between New York, Vermont, and Quebec, name the largest lake in New England.

Lake Champlain

1 2 Angles

What kind of angles are on either side of an angle bisector?

congruent angles

1 3 Ocean Currents

The circular flow of water around Antarctica resulting from the juncture of the west-wind drifts of the Atlantic Pacific and Indian Oceans is known as what current?

circumpolar (West Wind Drift)

BONUS

1 1 Etymology

What adjective that means "relating to or suggestive of war" was derived from the name of the Roman god of war?

martial

1 2 Optics History

What English scientist demonstrated that white light is not colorless but consists of colors that can be separated by passing the light through a prism?

Isaac Newton

1 3 Forests

The Ardennes is a forested region that separates Germany from Belgium, France, and what other tiny country?

Luxembourg

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 14

TOSS-UP

BONUS

1 Pronouns

Identify the three categories of pronouns in this sentence.

Eugene hurt himself when he was putting Pandora's evils back into their box.

reflexive, personal, possessive

2 Dialect

This passage suggests a dialect associated with what U.S. city?

A Bahnie is a Havihd student. Some say it is a derisive term for Hahvihd Yahd. Others say it comes from the old MBTA cah bahns just outside the Squayuh.

Boston

3 Cities

What is the modern name of the city indicated in this passage?

On June 25th, 1846, John C. Fremont's party arrived at Yerba Buena, which was then occupied by Bear Flaggers.

San Francisco

4 Hitler

After the failure of the Beer Hall Putsch, Hitler was sentenced to prison where he began writing what autobiographical work?

Mein Kampf

5 Medical Examinations

Rhinoscopy is a method of examining what part of the body?

nose (nasal passages)

1 Battles

The Battle of the Little Bighorn is also known as the Battle of the Greasy what?

Grass

2 The Sun

When our Sun uses up its hydrogen fuel and expands to engulf Mercury, Venus, and Earth, it will be what kind of star?

red giant

3 Chemistry

All inorganic compounds are chemical compounds not based on what element?

carbon

4 Monarchs

At age twenty-two in 1760, who assumed the British throne?

George III

5 Spheres

Using 22/7 for pi, to the nearest cubic inch, what is the volume of a sphere with a diameter of 20 inches?

4190

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 14

TOSS-UP

6 Reptiles

Ordinarily, their rough skin is a dull brownish-green, but fear or anger causes the skin color to become vivid green and hunger turns it brown or yellowish gray. Name these tree-dwelling lizards that can move each eye independently.

chameleons

7 Genetics

Through transcription, RNA is synthesized from what nucleic acid?

DNA

8 Asia

Name the landlocked nation the size of Arkansas between India and the Tibetan Autonomous Region of China.

Nepal

9 Tripartite Islands

Brunei is one of the three countries that occupy parts of Borneo. Name either of the other two.

Indonesia, Malaysia

10 Aviation

What term indicates the planes described in this 1945 quote?

The first two Japanese planes penetrated the fighter and flak screen and made for the same ship, an aircraft carrier. Both hit the deck.

kamikaze

BONUS

6 Anthologies

What anthology consists of 18 stories that are framed by an unnamed narrator who meets a former carnival attraction whose body is covered with animated tattoos?

The Illustrated Man

7 South America

Suriname was once part of what European kingdom?

Netherlands

8 Erosion

What is the term for the debris and broken material that accumulates at the foot of steep mountainsides?

talus

9 Fur Trading

In the 17th century, the Company of One Hundred Associates was a fur trading venture of investors from what country?

France

10 Diseases

A friend returns from the tropics and you notice he is taking quinine. What disease did he pick up while abroad?

malaria

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 14

TOSS-UP

1 1 Physiology

In animals, most cholesterol synthesis occurs in what organ?

liver

1 2 Biconditionals

Complete this biconditional statement.

If the adjacent sides of a rectangle are congruent then it is a square, and, if a rectangle is a square, then the ...

adjacent sides are congruent

1 3 Expressions

The expression, "Great Scott," refers to what general and hero of the Mexican-American War?

Winfield Scott

BONUS

1 1 Religious History

What was the primary religion in the empires of the Umayyads, Abbasids, Fatamids, Seljuks, Mughals, and Ottomans?

Muslim (Islam)

1 2 Double Agents

Juan Pujol Garcia served as a double agent for the Allies during World War II. His greatest deception came in 1944 when he played a major role in Operation Fortitude which convinced the Nazis that the primary objective of the D-Day invasion was what town north of Normandy?

Calais

1 3 Fishing Calculations

In a competition involving 35 fishermen, 15 of them caught an average of 81 fish while the rest caught an average of 60. What is the average number of fish caught by all the participants?

69

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 15

TOSS-UP

1 Tides

When the tide-producing forces of the Sun and Moon are in opposition, the high tides are at their lowest and the low tides are at their what?

highest

2 Optics

What kind of lens is an array of simple lenses with a common axis?

compound lens

3 Weaponry

During World War II, what were the British Valentine, the Russian T-34, the German Tiger, and the American Sherman?

tanks

4 Mottos

What four words first appeared on U.S. coins in April of 1864 and became the American national motto in 1956?

In God We Trust

5 War Literature

The diaries of Anne Frank were found in what city after World War II?

Amsterdam

BONUS

1 The Jaw

Which of the two bones forming the jaw of vertebrates is fused to the skull?

maxilla

2 Old West Trails

The Santa Fe Trail and the Oregon Trail began at sites along what river?

Missouri River

3 Rock

What rock has these characteristics?

- sedimentary carbonate rock
- soft, white, and porous
- a form of limestone
- composed of calcite
- formed by the accumulation of coccoliths
- cliffs formed of this rock lack bedding planes

chalk

4 Ecological Relationships

A hermit crab often carries a sea anemone on its shell as a bodyguard. This gives the anemone mobility and its stinging tentacles deter predators from the crab. This illustrates what kind of biological partnership?

mutualism (symbiosis)

5 Politics

The spreading of stories, often fabricated, about a candidate to destroy that candidate's reputation is known as what kind of assassination?

character assassination

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 15

TOSS-UP

BONUS

6 Waterways

The coastal route for ocean vessels that serve such Alaskan communities as Ketchikan, Wrangell, and Petersburg is called what passage?

6 Ores

Limonite is a yellow-brown ore of what metal?

Inside Passage

iron

7 Physiology

The German biochemist E. Baumann found what element absent from all other human body tissues is present in the thyroid gland?

7 Zoological Diseases

What disease, common among carnivores, is marked in later stages by paralysis of the swallowing muscles and by throat spasms set off by liquids?

iodine

rabies (hydrophobia)

8 Law History

What 6th-century Byzantine emperor created an enduring code of law?

8 Combustion

Subsonic combustion is called deflagration. What similar term indicates a supersonic explosion that creates a shock wave?

Justinian

detonation

9 Chemical Compounds

What is the collective name for compounds that lower the surface tension of liquids and act as wetting agents, detergents, emulsifiers, foaming agents, and dispersants?

9 Quotes

What did Buzz Aldrin describe as "magnificent desolation"?

surfactants

lunar surface (Moon)

10 Novel Settings

What city is the setting for the Lew Wallace novel, "Ben Hur"?

10 Legal Anagrams

The letters in the words, "can ruin a selected victim" comprise an anagram for what type of evidence that is generally rejected in a court of law?

Rome

circumstantial evidence

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 15

TOSS-UP

1 1 Lyrics

These lyrics are from a song illustrating what style of vocal music?

Woke up this morning, feeling sad and blue.
Woke up this morning, feeling sad and blue,
Didn't have nobody to tell my troubles to.

BONUS

1 1 Clouds

Scud is another name for what kind of ragged, detached clouds?

blues

fractus

1 2 Shinto

In the Shinto religion, kami or spirits are believed to exist throughout nature in all things. What adjective indicates this kind of attribution of conscious life to natural phenomena?

1 2 Washing

One reason to use hot water for washing is that what property of water is lower for hot water than cold water?

animistic

surface tension

1 3 Abnormal Psychology

Donald thinks his IQ is 235, that he has an enormous cache of gold in the Superstition Mountains, that he is the reincarnation of Napoleon Bonaparte, and that he is the greatest novelist since Margaret Mitchell. Don is having what kind of delusions?

1 3 Divvying Up

The term indicating the division of a country or region into several small, independent, political units comes from the name of what peninsula?

delusions of grandeur

Balkan Peninsula

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 16

TOSS-UP

1 The First Cabinet

The title of which of the four cabinet members originally appointed by George Washington did not include the word "secretary"?

attorney general

2 Proposals

In 1787, Edmund Randolph introduced a plan to the Philadelphia Convention which included a national executive, a national judicial system, and a bicameral legislature, with each state represented in proportion to wealth and number of inhabitants. Name this plan.

Virginia Plan

3 Integumentary Alterations

Ecdysis, a periodic anatomical change typical of insects, arachnids, crustaceans, and snakes, is more commonly known as what?

molting (shedding)

4 Primitive Fish

The first bony fish were adapted to life in swamps. They had gills like other fish, but also thin-walled bladders opening into their throats which could absorb oxygen from the air. Name these fish.

lungfish

5 Biological Problems

Organisms introduced into an ecosystem either by accident or on purpose are described by two terms, exotic or what?

invasive

BONUS

1 Japan

The highest point in Japan is on what island?

Honshu

2 The Senate

Uncle Dickie has been qualified to serve in the U.S. Senate for the last 18 years. How old is he today?

48

3 Presidents

What U.S. president forced Native Americans to give up about 20 million acres of land including half of present-day Alabama and one fifth of Georgia?

Andrew Jackson

4 Medical Procedures

Physicians can avoid using invasive surgical techniques by using what kind of sound to break up kidney stones and gallstones?

ultrasound

5 Body Language

What is the collective name for the motions a speaker uses to help express thoughts or emphasize parts of a speech?

gestures

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 16

TOSS-UP

6 Heat Transfer

A brass rod with one end over a Bunsen burner soon becomes hot because of what heat transfer process?

conduction

7 African Rivers

Name the river that flows through the only fertile region in the Republic of Niger.

Niger River

8 Chasing Bad Guys

After Jesse and Frank James robbed a train at Gads Hill, Missouri, what detective organization was hired to hunt them down?

Pinkerton's

9 Travel Problems

Dorothy drove from her apartment to Oztown in two hours. After a one-hour lunch there, she returned home, but at a rate twenty miles per hour less than her rate going. Given that she was gone six hours, at what rate did she travel on her way home?

40 mph

10 Primitive Art

What is the general term for the type of art illustrated by pictographs, petroglyphs, megaliths, and petroforms?

rock art

BONUS

6 Anagrams

The name of what mythical goddess completes this anagram?

Claire McCleethy = They Call Me ...

Circe

7 Science Fiction

In what science fiction novel does the Wildfire team explore why nearly everybody in Piedmont, Arizona, died of lethal blood clotting resulting from an extraterrestrial microorganism?

The Andromeda Strain

8 Scientific Roadblocks

Because he agreed with the Copernican model of the solar system, what 17th-century Italian astronomer was placed under house arrest for the rest of his life by Pope Urban VIII?

Galileo

9 Archaeology

The Minoan civilization arose during which archaeological age?

Bronze Age

10 Expressions

What modern expression alludes to this verse from Ecclesiastes?

Dead flies cause the ointment of the apothecary to send forth a stinking savour.

a fly in the ointment

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 16

TOSS-UP

1 1 Geometry

The locus of points equidistant from a single point is what solid?

a sphere

1 2 Wartime Novels

James Michener wrote a novel about American Korean War pilots assigned to destroy the bridges at what location?

Toko-Ri

1 3 Western Settings

Zane Grey's "The Call of the Canyon" is set in what state also known for the Petrified Forest, and the Painted Desert?

Arizona

BONUS

1 1 Overtones

If the fundamental frequency is 440 hertz, what is the frequency of the third overtone?

1760 hertz

1 2 Forts

What fort in Colorado built by and named for two brothers involved in fur trading was for many years the only significant permanent American settlement on the Santa Fe Trail between Missouri and the Mexican settlements?

Bent's Fort

1 3 British Traditions

What archbishop is the traditional cleric for coronations held in Westminster Abbey?

Archbishop of Canterbury

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 17

TOSS-UP

1 Historical Dedications

This refers to what ancient people?

It was reported that in 1487, when the temple of Huitzilopochtli was dedicated, as many as 20,000 captives were sacrificed.

Aztec

2 Historic Battles

These battles were waged during what general period of European history?

Battle of Tours
Battle of Stamford Bridge
Battle of Hastings
Battle of Stirling Bridge
Battle of Agincourt

Middle Ages (medieval period)

3 Chemical Bonds

The simplest covalent bond occurs in the diatomic molecule of what gas?

hydrogen

4 Orbits

The prefixes "peri" and "apo" can be added to the stem "poseidon" to indicate the nearest and farthest orbital distances from what planet?

Neptune

5 Anthropology

Homo sapiens means "man the wise." What corresponding term means "man the erect"?

Homo erectus

BONUS

1 Medieval Practices

What medieval philosophical tradition has been defined in this way?

It is the art of liberating parts of the Cosmos from temporal existence and achieving perfection which, for metals is gold, and for man, longevity, then immortality, and, finally, redemption.

alchemy

2 Islands

Name either of the two largest islands adjacent to the Tyrrhenian Sea.

Sicily, Sardinia

3 Polysyndeton

What word makes this line an example of polysyndeton?

And Joshua took Achan the son of Zerah, and the silver, and the garment, and the wedge of gold, and his sons, and his daughters, and his oxen, and his asses, and his sheep, and his tent, and all that he had.

and

4 Awards

These are awards given to people for their contributions to what general field?

Hugo Award, Bollingen Prize, Edgar Award, Man Booker Prize, Newberry Medal, O. Henry Award, Pushcart Prize

literature

5 Compounds

The water present in definite proportions in crystalline compounds is called the water of what?

hydration

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 17

TOSS-UP

6 Parliamentary Procedure

To end a formal meeting, there is a motion to do what?

adjourn

7 Testimony

In 2016 at a House oversight committee meeting, James Comey testified that Hillary Clinton's email practices put America's secrets at risk, her public claims on the matter were not true, and her actions constituted the "definition of carelessness". Mr. Comey held what position in the federal government?

FBI director

8 Poetry

What is the last word in this ditty entitled "On an Aging Prude"?

She who, when young and fair,
Would wink men up the stair,
Now, old and ugly, looks
The door where no man ...

knocks

9 Water Testing

Testing water quality may involve checking for TDS or total dissolved solids and TSS which stands for what?

total suspended solids

10 Philosophy

That "Man is nothing else but what he makes of himself" is basic to what philosophy of Jean Paul Sartre?

existentialism

BONUS

6 Appositives

What is the appositive in this line by Truman Capote?

Christmas Eve afternoon we scrape together a nickel and go to the butcher's to buy Queenie's traditional gift, a good gnawable beef bone.

a good gnawable beef bone

7 Theater

While the main character was delivering her soliloquy, another actor toward the rear of the stage was reacting to the speech by making faces and emitting strange noises, drawing the audience's attention to himself. What is this called?

upstaging

8 Desert Transportation

In North African and Arabian deserts, transportation of goods was once widely accomplished by using camel trains, otherwise known as what?

caravans

9 City Songs

These songs are associated with what U.S. city? M.T.A.

As We Walk to Fenway Park
Bunker Hill
Beantown
Shot Heard 'Round the World

Boston

10 Complex Numbers

Multiply these two complex numbers.

$3 + 5i$ and $2 + 4i$

-14 + 22i

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 17

TOSS-UP

1 1 Art History

What art form that was widespread in ancient Greece and Rome is based on tesserae?

mosaics

1 2 Elements

What transuranium element was named after the eighth planet from the Sun?

neptunium

1 3 Dickens' Characters

Who is the shrewd, conniving, falsely "umble" clerk of Mr. Wickfield in "David Copperfield"?

Uriah Heep

BONUS

1 1 Chemical Reactions

What kind of agent is an electron acceptor?

oxidizer (oxidizing agent)

1 2 Exponents

What is the square of the square of 2 squared?

256

1 3 Home Sites

The Hermitage was Andrew Jackson's home in what state?

Tennessee

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 18

TOSS-UP

1 Parallelograms

If the height of a parallelogram is 5 feet more than its base and its area is 36 square feet, what is its height?

9 feet

2 Excretions

What gas is a primary ingredient of the uric acid excreted by arthropods, reptiles, and birds?

nitrogen

3 Maturation

Linear growth of what ceases as the epiphyseal lines replace the epiphyseal plates and ossification occurs between the epiphyses and diaphyses?

bones

4 Natural Defenses

African-Americans seldom develop skin cancer and are less susceptible to sun-induced wrinkles because they have a high concentration of what pigment in their skin that absorbs UV rays?

melanin

5 Allusions

A skilled crook is sometimes called an artful dodger, an allusion to a character in what novel?

Oliver Twist

BONUS

1 Health Euphemisms

President Kennedy referred to the U.S. Navy's interdiction of shipping to Cuba during the Cuban missile crisis not as a blockade but by what other term indicating a period of time during which people, material, and vehicles are isolated to prevent a disease from spreading?

quarantine

2 British Officials

What is the term of office for a member of the British House of Lords?

life

3 Recent Auctions

In 2016, a sextant sold at auction for nearly \$97,000. This instrument was used in 1912 on the RMS Carpathia when its crew rescued survivors from what sunken passenger liner?

Titanic

4 Attraction

Complete this statement with the name for a type of physical attraction.

Mercury exhibits more cohesion than ...

adhesion

5 Organism Dependence

Heterotrophic organisms are dependent upon the existence of what other corresponding category of organisms?

autotrophic organisms

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 18

TOSS-UP

6 The French Military

In what unit of the French military can members choose to enlist under a pseudonym and a declared citizenship?

French Foreign Legion (Foreign Legion)

7 Sentence Parts

What is the function of the second clause in this sentence?

We understand that Mr. Zimmerman claimed he acted in self-defense.

direct object

8 World War I

The Central Powers of World War I included Germany, Austria-Hungary, Bulgaria, and what empire?

Ottoman Empire

9 Chemical Synonyms

What is a synonym for silicon dioxide?

silica

10 Exponential Division

64 equals 8 to the fourth power divided by 8 to what power?

second power

BONUS

6 Borrowed Technology

In the late 18th century, what immigrant to America built a factory to spin yarn entirely from his memory of such equipment when he worked as a spinner's apprentice in England?

Samuel Slater

7 Scientific Speculation

The Alvarez hypothesis involves an event that occurred on or adjacent to what peninsula?

Yucatan Peninsula

8 Sports Novels

What sport is central in these novels?

Bang the Drum Slowly
For Love of the Game
The Natural
Shoeless Joe

baseball

9 Atrocities

Kit Carson said this about a horrendous massacre in what future state?

Just to think of that dog Chivington and his dirty hounds, up there at Sand Creek. His men shot down squaws and blew the brains out of little innocent children. You call such soldiers Christians, do you? And Indians savages?

Colorado

10 Rectangle Coordinates

Consider the parallelogram PQRS in which the coordinates of P are (4,5), Q are (2,5), and R are (3,2). What are the coordinates of vertex S?

(5,2)

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 18

TOSS-UP

BONUS

1 1 Volunteer Groups

What is the popular name of the volunteer World War II aviators whose P-40 fighters had shark faces painted on their noses?

Flying Tigers

1 2 Political Slang

The concept of the "iron triangle" refers to mutually beneficial relationships between special interest groups, bureaucrats, and who else?

legislators (congressmen)

1 3 Settings

What remote region serves as at least part of the setting for these works?

The Long Walk

Crime and Punishment

The House of the Dead

One Day in the Life of Ivan Denisovich

Siberia

1 1 Whales

What are the largest invertebrates that make up part of a sperm whale's diet?

giant squids

1 2 Consumer Protection

Groups of consumers who have experienced similar problems may band together and bring what kind of suit against a manufacturer?

class action suit

1 3 Professions in Literature

These fictional characters were involved in what profession?

Mercy Wood in "The Witch of Blackbird Pond"

Miss Temple in "Jane Eyre"

Anna Leonowens in "Anna and the King of Siam"

Anne Shirley in "Anne of Avonlea"

Mr. Chips in "Goodbye Mr. Chips"

teaching (education)

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 19

TOSS-UP

1 Metamorphosis

Incomplete metamorphosis involves the egg, nymph, and adult stages. What are the four stages of complete metamorphosis?

egg, larvae, pupa, adult

2 Watercraft

Name the special wing-like transverse surface suspended below the hull which lifts the boat hull from the water after a minimum speed is attained.

hydrofoil

3 Precipitation

What kind of precipitation results from water vapor condensing onto sulfate or nitrate particles?

acid rain

4 Bruises

Someone who has been badly bruised should not take aspirin or ibuprofen because these substances do what to blood?

They thin blood.

5 Asian Roman Numerals

Express as a Roman numeral the parallel at which Korea was divided into two countries.

XXXVIII

BONUS

1 Wordplay

These lines illustrate what kind of unusual words?
People in the commune commune with nature.
I suspect that the suspect is guilty.
Your argument about the invalid is invalid.

homographs

2 Debate Scoring

In a formal debate, a competitor receiving three first-place rankings would have a cume of what?

3

3 Destruction

Robert Frost wrote of the end of the world. One cause of its destruction is described in this passage. What is the other?
But if it had to perish twice,
I think I know enough of hate
To say that for destruction ice
Is also great
And would suffice.

fire

4 Military Officers

What U.S., commissioned officers in the Air Force are lowest in rank?

lieutenants

5 Ship Supports

The binnacle is a stand for supporting and protecting what navigational device on board a ship?

compass

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 19

TOSS-UP

BONUS

6 **Skin**

What is connected to the skin by the hypodermis?

muscle (or bone)

7 **Languages**

What is the predominant language on these islands?

Jamaica
Tasmania
Grenada

English

8 **Africa**

What is the hyphenated term for the entire region of Africa south of the Sahara Desert?

sub-Saharan

9 **Symmetry**

Excluding squares, how many lines of symmetry does a rectangle have?

2

10 **Injuries**

Abrasions usually do not penetrate below what layer of skin?

epidermis

6 **Forms of Governance**

"Oligarchy" literally means rule by what?

the few

7 **Native Americans**

The Powhatan Confederacy consisted of some 30 tribes along the coastal plain of what future state?

Virginia

8 **Myths**

The winged horse, Pegasus, arose from the blood of a monster killed by whom?

Perseus

9 **Oceania**

The name for which subregion of Oceania was derived from a Greek word meaning "small"?

Micronesia

10 **Peoples**

According to some historians, the name of what people was taken from an Algonquian name meaning "eaters of raw flesh"?

Eskimos

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 19

TOSS-UP

1 1 Justification

A "jus ad bellum" is the justification offered by a country to do what?

go to war

1 2 Scientific Milestones

Whose work inspired this haiku?

Galapagos finch -

the same beak as Aunt Enid's!

A theory is born.

Charles Darwin

1 3 Queens

Her father was King George VI. She became queen of England upon his death in 1952 when she was just twenty-six years old. Name her.

Elizabeth II

BONUS

1 1 Colonial Tragedies

This is about what colony in the Americas?

The winter of 1609 to 1610 became known as the "starving time." The English colonists lived on dogs, cats, rats, snakes, toadstools, horsehides, and even the corpses of dead men.

Only 60 people out of the previous summer's 500 colonists survived.

Jamestown

1 2 Plastids

What kind of plastid in algal and green plant cells contains the pigments necessary for photosynthesis?

chloroplast

1 3 Employees

Employees of independent agencies of the federal government are collectively known as civil what?

servants

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 20

TOSS-UP

1 Wars

Hull's surrender, the Niagara campaign, and the Montreal fiasco were part of what war?

War of 1812

2 Somebody's Somethings

We have Finian's rainbow, Whistler's mother, Gulliver's travels, and Hobson's what?

choice

3 Former Residents

Mexican residents of what U.S. state were referred to as "Tejanos"?

Texas

4 Sausage

What borrowed noun indicates a spicy, smoked, Polish sausage?

kielbasa

5 Physical Science

What adjective do physicists use in referring to any two events that occur at precisely the same time?

simultaneous

BONUS

1 Elementary Fertilizers

What letters stand for the primary nutritional elements in a complete fertilizer?

NPK

2 Short Stories

Name the short story with this beginning.

True! Nervous - very, very dreadfully nervous I had been and am. But why will you say that I am mad?

Tell-Tale Heart

3 Atomic Physics

When dropping from a higher energy level to a lower one, what massless elementary particle is emitted by the electron of a hydrogen atom?

photon

4 Devastating Eruptions

In 1902, the "Paris of the Caribbean" was virtually wiped off the map by the eruption of Mount Pelee. Name that city on the island of Martinique.

Saint Pierre

5 Sentence Types

Classify the sentence that is the Preamble of the U.S. Constitution according to its structure.

simple sentence

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 20

TOSS-UP

6 Caribbean Catastrophes

In early 2010, what Caribbean country suffered massive damage from the strongest earthquake there in the last 200 years?

Haiti

7 The Constitution

What collection of articles written by John Jay, Alexander Hamilton, and James Madison is a primary source for the interpretation of the U.S. Constitution?

Federalist Papers (The Federalist)

8 Near Monopolies

In 1881, what trust incorporated by John D. Rockefeller brought 95 percent of the U.S. petroleum industry under the control of a nine-man directorate?

Standard Oil

9 War Casualties

In the heat of battle, military personnel may accidentally and tragically fire on their own troops, a mistake known as what kind of fire?

friendly fire

10 Occupational Diseases

Black lung is an occupational disease associated with what industry?

coal mining (coal dust)

BONUS

6 Musicals

Name the musical about a famous doomed British vessel that includes these songs.

There She Is

The Largest Floating Object in the World

The First Class Roster

Wake Up, Wake Up!

Dressed in Your Pajamas in the Grand Salon

To the Lifeboats

The Foundering

Titanic

7 Bearings

If the bearing from a ship to an island is 135 degrees, then what is the intercardinal direction from the island to the ship?

northwest

8 Marching Orders

What general gave Philip Sheridan this order in 1864 regarding Virginia's Shenandoah Valley?

Take everything and such as cannot be consumed - destroy. Make the valley so that a crow flying over the country would need to carry his rations.

Ulysses Grant

9 Tributes

The name of what pamphleteer and profoundly influential proponent of American independence completes this line by John Adams?

I know not whether any man in the world has had more influence on its inhabitants or affairs for the last thirty years than ...

Thomas Paine

10 Anatomy

Masses or layers of specialized cells of similar type and common embryonic origin that operate in a coordinated fashion are called what?

tissues

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 20

TOSS-UP

1 1 Governmental Offices

What was the title of an elected magistrate of the Roman republic or an official appointed by a government to reside in a foreign city and represent its commercial interests there?

consul

1 2 Colonial America

Name the southernmost of the Chesapeake colonies.

Virginia

1 3 Traditions

What is the collective name for the following?
mountain laurel in Connecticut
camellia in Alabama
black-eyed Susan in Maryland
goldenrod in Kentucky
wild prairie rose in North Dakota
Indian paintbrush in Wyoming

state flowers

BONUS

1 1 Heavenly Objects

What kind of heavenly objects are these?
Eris, Makemake, Haumea, Ceres, Pluto

dwarf planets

1 2 Vital Signs

The four primary vital signs are BP or blood pressure, HR or heart rate, RR or respiratory rate, and BT which stands for what?

body temperature

1 3 Body Minerals

What is the term for minerals in your body such as sodium, calcium, potassium, phosphate, and magnesium that have an electric charge?

electrolytes

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 21

TOSS-UP

BONUS

1 Inflammations

Tonsillitis involves the inflammation of what kind of tissue?

lymphoid (lymphatic)

2 English Dynasties

With monarchs including Henry VIII and Elizabeth I, what was the name of the royal family that occupied the British throne from 1485 to 1603?

Tudor

3 Metaphors

This passage from Shakespeare's "Sonnet 65" is about what natural process?

O, how shall summer's honey breath hold out
Against the wrackful siege of battering days?

aging

4 Naval Warfare

Although the British won more sea battles in the War of 1812, the victories by what U.S. ship, especially over H.M.S. Java, became legendary in America?

U.S.S. Constitution (Old Ironsides)

5 Anthropology

The Neanderthals are an extinct species of what genus?

Homo

1 Architecture

In 2012, the Skytree opened to visitors. This structure that is almost twice as tall as the Eiffel Tower is in what city?

Tokyo

2 Ecology

Most interactions between species in an ecological community fall into three categories including predation, competition, and what other that involves long-term associations such as commensalism or mutualism?

symbiosis

3 Poetry

What is a synonym for the emphasis placed on a word or syllable that poets also refer to as accent?

stress

4 Folklore

Female spirits called banshees are associated with what island?

Ireland

5 Epitaphs

This is the translation of what architect's epitaph carved in Latin over the interior of St. Paul's cathedral's north door?

If his monument you seek, look around.

Christopher Wren's

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 21

TOSS-UP

BONUS

6 Colorful Titles

What color is missing in the titles of these novels?

---- Dolphin Street

How ---- Was My Valley

The ---- Mile

The Big ---- Tent

Anne of ---- Gables

6 Memorial Poetry

This is the first stanza of a poem written for the dedication of a memorial in what state?

By the rude bridge that arched the flood,

Their flag to April's breeze unfurled,

Here once the embattled farmers stood,

And fired the shot heard round the world.

Green

Massachusetts

7 Astronomical Antonyms

What is the antonym of perigee?

7 Nonfiction

Complete this title.

Spirit of Endurance - The True Story of the

Shackleton Expedition to the ...

apogee

Antarctic

8 Fuels

Gasohol contains what type of alcohol?

8 Musicians

What medieval European traveling musicians presented songs and ballads usually dealing with chivalry and love?

ethanol (methanol)

troubadours (minstrels)

9 Stagecraft

What book is the master copy of the script or score of a dramatic presentation that contains all of the blocking, technical cues, set layouts, and notes necessary to run the production?

9 Toes

How many phalanges are in your big toe?

prompt book (or "the book")

2

10 Asteroids

The sizes of most asteroids are calculated indirectly by determining their reflecting power. The reflecting power of an asteroid or planet is called its what?

10 Emergency Medical Equipment

Name the machine used to deliver an electrical shock to the chest to stop ventricular fibrillation.

albedo

defibrillator

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 21

TOSS-UP

1 1 **Pyramids**

A pyramid is 8 feet tall with a square base, each side of which is 4.5 feet. What is its volume?

54 cubic feet

1 2 **Revolts**

In the 16th century, William the Silent, prince of Orange, led the revolt of the northern provinces of the Netherlands. He relied on quick strikes to keep the Spanish invaders off balance. Today, we call this technique what kind of warfare?

guerrilla warfare

1 3 **Borrowed Words**

These words came into English from what Asian language?

chutney, juggernaut, pundit, shampoo, thug

Hindi

BONUS

1 1 **Political Pieces**

These are the equivalent of U.S. states in what European country?

Vestfold, Svalbard, Fjordane,
Telemark, Nordland

Norway

1 2 **Paintings**

In 2016, a newly completed painting that is practically indistinguishable from a Renaissance masterpiece was unveiled in Amsterdam. Created entirely by digital technology, this artwork precisely mimics the style of what famed 17th-century Dutch artist who created "The Anatomy Lesson of Dr. Nicolaes Tulp" and "The Night Watch"?

Rembrandt

1 3 **Heavies**

The Illinois hometown of Ulysses Grant and the name for a lead ore share what name?

Galena

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 22

TOSS-UP

1 Hydrology

What adjective used in hydrology means "muddy" or water in which there are many suspended sediments?

turbid

2 Explosives

Explosive materials formed to focus the explosive energy are known as what kind of charges?

shaped charges

3 German History

What program similar to the de-Stalinization of the Soviet Union after 1956 occurred in Germany after the end of World War II?

denazification

4 Fictional Ships

Name the ship that is central in the novel by Paul Gallico about a capsized ocean liner?

Poseidon (SS Poseidon)

5 Enterprising Individuals

What line of work was shared by these people?

Milton Sublette
Jedediah Smith
James Bridger

trapping

BONUS

1 North Dakota

Badlands National Park is situated between the Black Hills of South Dakota and what major river?

Missouri River

2 Historical Periods

In Britain, the Reformation was initiated by what king's political break with the papacy in 1534?

Henry VIII

3 Lighthouses

These are lighthouses in what state?

Grand Island Harbor
Keeweenaw Waterway
Marquette Harbor
Old Mackinac Point
Isle Royale

Michigan

4 U.S. Officials

What secretary of state under both Abraham Lincoln and Andrew Johnson was an ardent expansionist?

William Seward

5 African History

What East African country was brutalized under the regimes of Milton Obote and Idi Amin?

Uganda

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 22

TOSS-UP

6 **Vitamins**

A quantity of a vitamin that greatly exceeds the recommended level is known as what kind of dose?

megadose

7 **Legal Cases**

In the 1730s, the famous colonial lawyer, Andrew Hamilton, said this in defense of what New York journalist charged with libel?

It is not the cause of one poor printer
but the cause of liberty.

John Peter Zenger

8 **Neural Transmission**

What is the term for the site where an electrical impulse is transmitted from one neuron to another?

synapse

9 **Ocean Currents**

Minutes after the Grand Banks earthquake of 1929, transatlantic telephone cables began breaking sequentially, farther and farther downslope, away from the epicenter. These breaks even hundreds of miles from shore were attributed to what kind of ocean currents?

turbidity (density) currents

10 **Scandinavia**

What Scandinavian nation is closest to Estonia?

Finland

BONUS

6 **Mexico Geography**

The Mexican states of Campeche and Quintana Roo are on what peninsula?

Yucatan Peninsula

7 **Trinomial Factoring**

What are the factors of this trinomial?

$$3(x^2) + 2xy - 8(y^2)$$

$(x + 2y)(3x - 4y)$

8 **Marine Demonyms**

What demonym begins this name of a particular kind of marine life?

---- man of war

Portuguese

9 **Political Allusions**

This definition is an allusion to words associated with what 19th-century president?

A politician is a person who realizes you
can't fool all of the people all of the time
but is willing to give it a try.

Abraham Lincoln

10 **Eastern European Regions**

In 1912, Bulgarians and Serbians launched an attack on the Ottoman Empire and destroyed Turkish control of the mountainous countries in southeastern Europe, a region known as the what?

Balkans

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 22

TOSS-UP

1 1 Ballets

Sergei Prokofiev wrote what ballet based on the Shakespearean story of star-crossed lovers?

Romeo and Juliet

1 2 Odyssey Grammar

Classify this line from "The Odyssey" according to its structure.

I would rather be tied to the soil as another man's serf, even a poor man's, who hadn't much to live on himself, than be king of all these, the dead and destroyed.

complex

1 3 Rock

Coquina belongs to which of the three major categories of rock?

sedimentary

BONUS

1 1 Epilogues

This is part of the epilogue from what British novel?

Twelve voices were shouting in anger, and they were all alike. No question, now, what had happened to the faces of the pigs. The creatures outside looked from pig to man, and from man to pig, and from pig to man again; but already it was impossible to say which was which. Animal Farm

1 2 Civil War

Lincoln announced the Emancipation Proclamation just after McClellan's forces had beaten Lee's army in what battle?

Antietam (Sharpsburg)

1 3 Radiation

What adjective indicates the kind of ubiquitous ionizing radiation emitted from natural sources that everybody is regularly exposed to?

background

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 23

TOSS-UP

BONUS

1 Deportations

In 1944, all Tatar, Armenian, Greek, and Bulgarian residents of the Crimea were deported to Central Asia by what Soviet leader?

Joseph Stalin

2 White Collar Crime

What criminal financial scheme aims to conceal the existence, source, and destination of illicitly obtained funds?

money laundering

3 Geology

There are two primary classifications for erosion including chemical and what other?

mechanical

4 Mood

What grammatical mood is used in this quip?
If you were twice as smart as you are, you'd be half as smart as you think you are.

subjunctive

5 Geologic Time

Although the nearly 4 billion years before the Paleozoic era makes up seven-eighths of the history of Earth, it is usually considered as a single long division called what time?

Precambrian

1 Voyages

In 1907, sixteen U.S. battleships and fourteen thousand sailors embarked on cruise around the world. This was known as what fleet?

Great White Fleet

2 Cyclones

In the Northern Hemisphere, cyclones rotate in which clock direction?

counterclockwise

3 Transcaucasia

Transcaucasia spans what two continents?

Asia, Europe

4 Court Testimony

What kind of witness is a person whose professional training enables her to offer an opinion on what happened in a criminal case, even if she was not present when the crime occurred?

expert witness

5 Law Vocabulary

What is the term for a petition seeking review of a case that has been decided by a court of law?

appeal

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 23

TOSS-UP

BONUS

6 Frontier Farewells

Calamity Jane died in the same year as what colorful frontier judge in Langtry, Texas?

6 Igneous Rock Analogies

While granite and diorite are intrusive, basalt and rhyolite are what?

Roy Bean

extrusive

7 River History

What major Canadian river beginning in Great Slave Lake is named after the first person to cross the American continent north of Mexico?

7 Navigation

What optical instrument is used to measure the angle formed at the observer's eye between a celestial body and the horizon?

Mackenzie River

sextant

8 Turkey Shoots

If 75% of the shooters invited to a turkey shoot will show up, how many invitations should be sent to have 120 shooters present at the shoot?

8 Animal Evolution

The ostracoderms were early versions of what kind of animals?

160

fish

9 Officials

Daniel Webster was turning down what political position offered to him in 1848 when he said this?
I do not propose to be buried until
I am really dead and in my coffin.

9 Means

What are the four harmonic means between $\frac{1}{2}$ and $\frac{1}{12}$?

vice presidency

$\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{8}$, $\frac{1}{10}$

10 Meteorites

Most meteorites are known as finds, but those that are recovered after being seen as they travel through the atmosphere have what other name?

10 Compounds

What metallic element is in stannous chloride, stannous fluoride, and stannous oxide?

falls

tin

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 23

TOSS-UP

1 1 European Literature

What name did Goethe use for the devil in "Faust"?

Mephistopheles

1 2 Ancient Oceans

What name meaning "all sea" means the ancient sea that once surrounded Pangaea?

Panthalassa

1 3 Historical Figures

This is about whom?

Everybody knows the incredible military achievements of his youth, his swift marches across vast stretches of three continents, and his student days under Aristotle.

Alexander the Great

BONUS

1 1 Pilots

Major Charles Sweeney was the twenty-five year-old pilot of "The Great Artiste" that dropped an atomic bomb on what Japanese city in 1945?

Nagasaki

1 2 British History

Before granting the throne to William and Mary in 1689, Parliament required that they be subject to parliamentary laws, and forbade them to proclaim or suspend any law, impose any tax, or maintain an army without its consent. These conditions were listed in what document?

Bill of Rights

1 3 Tangent Geometry

You place a nickel on a flat surface. What is the maximum number of nickels that can be placed around it, flat on the surface, with each one tangent to it?

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 24

TOSS-UP

1 Forms of Government

Single is to monarchy as few is to what government form?

oligarchy

2 Volcanoes

The tube that connects the magma chamber with a volcanic vent is called a what?

pipe

3 Cells

The typical composite eukaryotic cell has three regions including the plasma membrane, the cytoplasmic region, and what central part?

nucleus

4 Homonyms

Spell the word meaning "a deliberative assembly of people" that is a homonym for another word meaning "advice."

council

5 Phrases

The word followed by an appositive phrase is what part of speech?

noun (or pronoun)

BONUS

1 Prime Minister Prognostications

What British prime minister said this?
My good friends, this is the second time
there has come back from Germany to
to Downing Street peace with honor.
I believe it is peace for our time.

Neville Chamberlain

2 Wartime Poetry

In this excerpt from a John Greenleaf Whittier poem, who is Stonewall Jackson defending when he says this?
Who touches a hair of yon gray head dies
like a dog!

Barbara Frietchie

3 The Moon

These are the three types of what structures that are obvious on the lunar surface?
straight, arcuate, sinuous

rilles

4 Asteroids

The atmospheres of asteroids primarily consist of what gas?

none

5 Spiders

The eyes, mouth, and legs are on which of the two body parts of a spider?

cephalothorax

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 24

TOSS-UP

6 Anatomical Affixes

What is indicated by these prefixes?
cephalo-, cephalic-, cephalous-

head

7 Settings

What country is the setting for these novels?
True History of the Kelly Gang
The Lambing Flat
Murder on the Ballarat Train
The Black Opal

Australia

8 European Capitals

What Scandinavian capital city is about 50 miles north of the capital of Estonia?

Helsinki

9 Political Opportunists

In 1940, Vidkun Quisling attempted a coup d'etat during the German invasion of what country?

Norway

10 South American Civilizations

What was the title of the sovereigns of Peru prior to the conquest by Pizarro?

Inca

BONUS

6 Alchemy

Alchemists of the Middle Ages associated what planet with the metal, quicksilver?

mercury

7 Radical Division

Divide the cube root of 128 by the cube root of 2.

4

8 Sculptures

In 1504 at the age of 29, who completed his famous marble statue of David?

Michelangelo

9 Troubled Artists

This describes what postimpressionist painter?
After a fight with Paul Gauguin, he suffered the first of what became continuing fits of insanity and cut off his own ear.

Vincent van Gogh

10 Mideast Isthmuses

The Isthmus of Suez is between what seas?

Red, Mediterranean

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 24

TOSS-UP

1 1 The Family Jewels

When Princess Charlotte was christened in Norfolk in July, 2015, two pieces of the Crown Jewels traditionally used for christenings left London for the first time in over 175 years. What has been the permanent home of the Crown Jewels of England since 1303?

Tower of London (the Jewel House)

1 2 Government

What policy of a government relates to its revenues, expenditures, and debt?

fiscal policy

1 3 Nicknames

The nickname, Captain Shrimp, was given to what well-known leader of the Pilgrims in reference to his diminutive size?

Miles Standish

BONUS

1 1 U.S. Sites

What do these sites have in common?

Pinnacles
Natural Bridges
Chiricahua
Montezuma Castle
Capitol Reef
Colorado

national monuments

1 2 Polygons

In a polygon, what is the term for any two points connected by a diagonal?

vertices

1 3 Minerals

Plumbogummite is the name for a mineral derived from the Latin word "plumbum". On that basis, you can surmise that it contains what malleable, ductile metallic element?

lead

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 25

TOSS-UP

1 Libraries

Whose presidential library is in Independence, Missouri?

Harry Truman's

2 Waves

What property of waves describes the number of periodic disturbances that pass a given point in a unit of time?

frequency

3 Reservoirs

These lakes are at least partly in what U.S. state?
Robert S. Kerr Reservoir
Grand Lake o' the Cherokees
Eufala Lake
Lake Texoma

Oklahoma

4 Metal History

It was first systematically worked by the Hittites in Asia Minor. By 500 B.C., it had replaced bronze in the manufacture of weapons and tools. Name this metal.

iron

5 International Relations

One nation's official acknowledgment of another nation's sovereignty and governmental legitimacy is called diplomatic what?

recognition

BONUS

1 Matter

The critical point of a fluid occurs when its gas phase and its liquid phase both have the same what?

density

2 Plants

What term for all plants considered as a group was derived from the name of the ancient Roman goddess of flowers?

flora

3 Productive Periods

What period in European history produced Edmund Spenser the poet, Lorenzo Ghiberti the sculptor, Nicolaus Copernicus the astronomer, and Miguel Cervantes the novelist?

Renaissance

4 Audiometers

Audiometers measure the weakest intensity at which a person can hear most frequencies in the normal range of hearing. Name this intensity level.

threshold

5 Triangles

The angles of a triangle are in the ratio of 3 to 3 to 4. What is the largest angle?

72 degrees

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 25

TOSS-UP

6 Royal Exits

In the Netherlands, Queens Wilhelmina, Juliana, and Beatrix have voluntarily given up their thrones so that their heirs could become monarchs sooner. What is the term for such voluntary relinquishing of power?

abdication

7 The Heart

What is the relaxation phase of the heart called?

diastole

8 Horrific Stories

This is from what Edgar Allan Poe tale?
First of all, I dismembered the corpse.
I cut off the head and the arms and the legs. I then took up three planks from the flooring of the chamber, and deposited all between the scantlings.

The Tell-Tale Heart

9 History of Law

During the Middle Ages, one way of resolving a legal dispute was to have the two parties or people representing them fight a duel, the outcome of which determined guilt or innocence. This was called trial by what?

battle (combat)

10 Philosophical Positions

What is the term for a person who believes that the existence of god or creator and the nature of the universe is unknowable?

agnostic

BONUS

6 Punishments

Draco Slaughter was convicted of 20 counts of forgery, and each count carried a maximum prison term of five years. If the judge gave him the maximum sentence on each count and the sentences ran consecutively, the total sentence would be 100 years. What would be the maximum sentence if they ran concurrently?

5 years

7 Medical Advances

In 1956, Surgeon General Leonard Scheele and Dr. Jonas Salk presented a report to the American Medical Association that what crippling disease could be eliminated within three years by means of a new vaccine?

polio

8 Insects

Insect wings emerge from which of the three major parts of their bodies?

thorax

9 Subatomic Physics

What particles are described here?
They seem to have no mass.
They may travel at the speed of light.
They are virtually impossible to detect.
They are produced by nuclear reactions.
They pass right through the Earth.

neutrinos

10 Area

The length of a 640 acre tract of land is one mile. What is its width?

1 mile

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 25

TOSS-UP

1 1 Stars

The life of a star may be characterized as a battle between nuclear fires and what other force?

gravity

1 2 Songs

According to the Scottish song, if you take the high road and I take the low road, I'll be where before you?

in Scotland

1 3 Waves

Mr. Wizard nails one end of a Slinky to a wall and holds the other end as he backs up several feet, stretching it tight. He gathers up a few coils of the toy and releases them instantly, creating a wave that travels horizontally to and from the wall. This illustrates what kind of wave?

longitudinal (or compression)

BONUS

1 1 Elements

On an alphabetical listing of the elements, what is the first one to have a chemical symbol consisting of just one letter?

boron

1 2 Engineers

Designing a structure strong enough to support the copper skin of the Statue of Liberty was a formidable task. What French engineer and architect of a notable Parisian tower designed the statue's support system?

Gustave Eiffel

1 3 British Kings

This king who is central to one of Shakespeare's plays was one of England's most despised monarchs. Recent studies indicate that he was infected with parasitic worms that grew up to a foot in length, posing a health problem in addition to his hunchback. Name him.

Richard III

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 26

TOSS-UP

1 Root Words

What is the meaning of the root word in culpable, culprit, and exculpate?

blame (fault, guilt)

2 Elections

In what kind of primary election may only those voters who have registered as belonging to the Republican Party vote for Republican candidates?

closed primary

3 Compounds

The prefix in these compounds indicates that they all contain what element?

thiourea
thiocyanic acid
thiophene
thiouracil

sulfur

4 Laws

What is the name for a statute or regulation enacted by a city government?

ordinance

5 Chemical Reactions

When sulfur is oxidized in an atmosphere of air, what is the reducing agent in this reaction?

sulfur

BONUS

1 Amendments

These phrases are from what U.S. constitutional amendment?

-nature and cause of the accusation
-speedy and public trial
-impartial jury
-assistance of counsel for his defense

6th amendment

2 Collapsed Caves

When the water table drops below the level of a cave, the cave is no longer supported by water within it and its roof can collapse, leaving a circular depression called a what?

sinkhole

3 Tidal Waves

One of the largest tidal waves in history resulted from the explosion of what volcanic island in the Strait of Sunda between Sumatra and Java in 1883?

Krakatoa

4 Root Words

What is the meaning of the root word in these terms?

recalculate, calculus, decalcify

pebble (stone)

5 Atrocities

Thousands of Indians from what tribe were persecuted by Mexican dictator Porfirio Diaz and transported into virtual slavery on the Yucatan?

Yaqui

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 26

TOSS-UP

BONUS

6 Angles

Two angles are supplementary, and the measure of one of them is 8 times the measure of the other. What is the measure of the larger angle?

160 degrees

7 Literary Techniques

What term do writers use to describe the employment of figures of speech or vivid descriptions to produce clear mental images?

imagery

8 The Atmosphere

What powerful winds occur between the troposphere and stratosphere?

jet stream

9 Parts of Speech

"All" and "none" function as what part of speech in this line by Winston Churchill?
He has all the virtues I dislike and
none of the vices I admire.

pronouns

10 Alliances

The major allies of Serbia at the beginning of the First World War were Russia, Britain, and what other country?

France

6 Fictional Feuds

In what science fiction tale is there a feud between the Harkonnens and the Atreides?

Dune

7 Theater

In many older theaters, there is a low box at downstage center in which only a person's head can be seen by the actors onstage. Name that person's role.

prompter

8 Age Problems

George is now 3 years older than Howie. 7 years from now the sum of their ages will be 79. How old is Howie now?

31

9 Ancient Astronomy

Marduk was a planet the Babylonians named after their chief god. What equivalent name did the Romans give to this planet?

Jupiter

10 Recent Technology

What kind of vehicles are being designed and built in the Russian Angara project?

rockets (launch vehicles)

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 26

TOSS-UP

1 1 Pilots

This is about what pilot?

It was on Harry Guggenheim's estate that he wrote his autobiographical "We" before embarking on a goodwill tour of Mexico and Central and South America, during which he met and afterward married Anne Morrow.

Charles Lindbergh

1 2 Afflictions

What category of psychological disorders was named after the original Greek words "soma" and "psyche"?

psychosomatic

1 3 Minerals

Name the kind of mineral deposit formed within a fissure or joint.

vein

BONUS

1 1 Bodies of Water

Name the largest terminal lake in the Northern Hemisphere.

Great Salt Lake

1 2 Eskimos

What open Eskimo boats, larger than kayaks, are traditionally made of skins stretched over a wooden frame?

umiaks

1 3 Colonel Washington

Also called the Battle of the Great Meadows, what engagement of the French and Indian War, staged in Pennsylvania, was George Washington's only military surrender?

Battle of Fort Mifflin

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 27

TOSS-UP

1 Symbols of Authority

A sovereign in what ancient civilization wore a headdress displaying a uraeus?

Egypt

2 "Stan" Countries

Turkmenistan, Uzbekistan, and Tajikistan form the northern border and Pakistan is to the south of what country?

Afghanistan

3 Fortunate Choices

Since he decided at the last minute not to attend the play, "Our American Cousin," what prominent American general and future commander-in-chief avoided also being murdered when John Wilkes Booth killed Lincoln?

Ulysses Grant

4 Canada

These are cities of what Canadian province?

Thunder Bay
Windsor
Niagara Falls
Midland
Ottawa
Toronto

Ontario

5 Poetry

What poem by Poe in memory of his wife ends when highborn kinsmen take her away?

Annabel Lee

BONUS

1 Rivers

Just before the Mekong River enters Vietnam, it flows through what country?

Cambodia

2 Corrosion

A bar of aluminum will undergo corrosion until what compound forms on its exterior that stops the process?

aluminum oxide

3 Personality

What term is missing in these lines?

Extroverts are action-oriented while ----
are thought-oriented.

Extroverts seek breadth of knowledge while ----
seek depth of knowledge.

Extroverts like frequent interaction while ----
prefer more substantial interaction.

introverts

4 Neurons

Name the branching portion of a neuron that picks up the stimulus and transmits it to the neuron's cell body.

dendrite

5 Shapes

The top of an obelisk has the shape of what solid figure?

pyramid

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 27

TOSS-UP

BONUS

6 Personality Traits

Whom do narcissists excessively love and admire?

themselves

7 Special Interest Parties

What relatively young U.S. political party is largely concerned with supporting and encouraging strong environmental laws?

Green Party

8 The Ear

These are structures in what organ in the ear?

superior semicircular canal
posterior semicircular canal
lateral semicircular canal

cochlea

9 Ancient Public Works Projects

This inscription by Darius the Great concerns the early history of what canal?

I ordered this canal dug from the river that flows in Egypt to the sea that begins in Persia.

Suez Canal

10 Longitude

The greatest number of lines of longitude run through what country of Southeast Asia?

Indonesia

6 Acting Obligations

What is the name for the specified time individual actors are expected to arrive at a theater prior to a performance?

call times

7 Mythology

Brontes, Steropes, and Arges were offspring of Ge and Uranus. What is the collective name for these three giants?

Cyclopes

8 Poems

Name the poet who wrote these verses.

Wild men who caught and sang the sun in flight,
And learn, too late, they grieved it on its way,
Do not go gentle into that good night,
Grave men, near death, who see with blinding
sight

Blind eyes could blaze like meteors and be gay,
Rage, rage against the dying of the light.

Dylan Thomas

9 Dictatorships

The dictatorship of what country was called the Porfiriato?

Mexico

10 Age Problems

Abe is twice as old as Bert and half as old as Carl is. In 22 years, Bert will be half of Carl's age. How old is Abe?

22

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 27

TOSS-UP

1 1 Probability

In a bag you have 5 slot cars numbered 1 to 5 and 6 yo-yos with the labels A through F. If you randomly pull 1 slot car and 1 yo-yo from the bag, what is the probability of getting a slot car with an odd number and a yo-yo with the label B?

1/10

1 2 Island Provinces

Approximately 600 miles west of Ecuador lies what group of islands with tremendous biological significance?

Galapagos Islands

1 3 Afflictions

What body system is directly involved with phlebitis, atherosclerosis, hemorrhoids, pericarditis, and hypotension?

circulatory system

BONUS

1 1 Islands of Oceania

Pitcairn Island was originally colonized by refugee mutineers from what ship?

H.M.S. Bounty

1 2 Vaccination

The effect of vaccination or inoculation is to cause the body to manufacture what protein substances which prevent the onset of a disease?

antibodies

1 3 Mammals

The platypus is one of the two mammals that lay eggs. The other is the spiny what?

anteater

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 28

TOSS-UP

1 Wartime Powers

The Big Five powers in the 1940s included what French leader?

Charles de Gaulle

2 Explorers

What Italian explorer in service of the king of France was the first European to explore the North American coast from the Carolinas, up past Long Island and Narragansett Bay, to Newfoundland?

Verrazzano

3 Areas

A rectangle measures six by eight meters. Within the rectangle is a square two meters on a side. What is the area of the rectangle less that of the square?

44 square meters

4 Campaign Issues

What was the term for people who campaigned for giving women the right to vote?

suffragettes

5 Law Enforcement

What is the name for a member of a self-appointed group that enforces the law in the absence of legal authority?

vigilante

BONUS

1 Highways

What is another name for the 600-mile California Mission Trail?

El Camino Real (King's Highway, Royal Road)

2 Pacific Islands

These are part of what Pacific island group?

Adak
Attu
Tanaga
Umnak
Unimak
Amchitka

Aleutians

3 Journalism

What was the collective name for those journalists whose impacts included ending the Standard Oil monopoly, establishing the Pure Food and Drug Act of 1906, and the passage of the first child labor laws in the U.S?

muckrakers

4 Operas

Georges Bizet startled his French audience with the passion of this opera and the sight of girls smoking on the stage. By the end of the 19th century it had played in every opera house. Name this opera about a Gypsy.

Carmen

5 Operas

Modest Mussorgsky wrote what opera based on Alexandr Pushkin's tragedy of the rise and fall of a Russian czar named Boris?

Boris Godunov

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 28

TOSS-UP

6 Malicious Activities

What is the neologism and homophone for posing as a legitimate company online to fraudulently acquire user names, passwords, and financial information?

phishing

7 Predators

What category of predators has practically no natural enemies?

top (alpha, apex) predator

8 Europe

In what European state are these located?

Teutonic College

Palace of Justice

Pontifical Academy of Sciences

St. Peter's Square

Vatican City

9 Government Power

Name the exclusive right of a government to exercise supreme authority over its territory.

sovereignty

10 Symphonies

What is the translation of the name of Beethoven's symphony, "Sinfonia Eroica"?

Heroic Symphony

BONUS

6 Westerns

In "Lonesome Dove," Pea-Eye Parker, Jake Spoon, Joshua Deets, Augustus McCrae, and Woodrow Call were formerly members of what law enforcement outfit?

Texas Rangers

7 Expositions

Who became president as a direct result of a tragic event that occurred at the 1901 Pan-American Exposition in Buffalo, New York?

Theodore Roosevelt

8 Motion

What is another term for a repetitive back-and-forth or up-and-down motion?

reciprocating (periodic) motion

9 Acronyms

What is the acronym for Geophysical Ocean Floor Analysis and Research?

GOFAR

10 Architecture

What takes place inside baptisteries?

baptisms

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 28

TOSS-UP

1 1 Statistics

The rejection of a null hypothesis that is actually true is known as what kind of error?

alpha error (type 1 error)

1 2 Attorneys

A lawyer from outside the government selected by the attorney general or Congress to investigate and possibly prosecute a federal official is called a special prosecutor or what kind of counsel?

independent counsel

1 3 Organs

What organ in the cochlea resembles a snail in form and consists of innumerable fibers connected to the auditory nerve?

organ of Corti

BONUS

1 1 Medical Specialties

Old Zeke Kudzufritter has a detached retina and cataracts. He is best advised to see what medical specialist?

ophthalmologist

1 2 The Aeneid

In Virgil's "Aeneid," Jupiter ordered Aeneas to found an "imperium sine fine" or an empire without what?

an end

1 3 Geological Sites

What formed the long, geologically significant gouges and grooves on Kelleys Island in Ohio?

glaciers

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 29

TOSS-UP

1 Mountains

It is the highest peak in Argentina, in the Andes, and in South America. Name this highest peak in the world outside Asia.

Mt. Aconcagua

2 Presidential Journeys

What U.S. president became the first to travel to Europe while in office when he attended the Paris Peace Conference ending World War I?

Woodrow Wilson

3 Law Enforcement

What 19th-century agency enforced the law around Chilkoot Pass?

North West Mounted Police (Mounties)

4 Combined Words

The portmanteau word, "ginormous" is a combination of what two words?

gigantic, enormous

5 Queens

The second wife of Henry VIII and mother of Elizabeth I was Anne who?

Boleyn

BONUS

1 Wartime Songs

This is from a popular song during what war?
Over there, over there, send the word, send the word, over there, that the Yanks are coming, the yanks are coming, the drums rum tumming everywhere. So prepare, Say a prayer, send the word, send the word to beware, we'll be over, we're coming over, and we won't be back till it's over over there!

World War I

2 Purple Prose

In this example of purple prose, what is it that Oliver is having trouble doing?

It is a fact that there was considerable difficulty inducing Oliver to take upon himself the office of respiration - a troublesome practice, but one which custom has rendered necessary to our easy existence.

breathing

3 Wild Waters

Meteorologists use the phrase "combined seas" in reference to a combination of both wind waves and rounded waves generated a great distance away called what?

swells

4 Short Stories

This passage comes from what short story?

"Don't talk rot, Whitney," said Rainsford.

"You're a big game hunter, not a philosopher.

Who cares how a jaguar feels?"

The Most Dangerous Game

5 Proposals

If Governor Doug Ducey of Arizona proposed to deny citizenship to the children of undocumented aliens, this would require a change in which amendment to the U.S. Constitution?

14th amendment

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 29

TOSS-UP

6 Drama

What is the title of the person responsible for the financial and administrative aspects of a dramatic production?

producer

7 Governmental Power

In addition to expressed and implied powers, what other category of powers are held by all national governments?

inherent powers

8 Metabolism

Fermentation converts sugar to acids, gases, or what kind of organic compounds?

alcohols

9 Cones

To the nearest whole number, what is the volume of a cone with a radius of 8 inches and an altitude of 15 inches?

1005 cubic inches

10 Geometric Sequences

What is the next term in this geometric sequence?
12, -6, 3, -3/2, 3/4, -3/8, ...

BONUS

6 Waterway Formation

Around 10,000 years ago, the British Isles were part of mainland Europe. As the ice sheet melted, a lake formed in the southern part of what is now the North Sea. The outflow channel from the lake entered the Atlantic near Dover and Calais. Around 6500 B.C., catastrophic erosion swept away the chalk to create what channel?

English Channel

7 Big Gulps

In 2014, a law championed by Mayor Michael Bloomberg that banned the sale of large sugary drinks was struck down by the supreme court of what state?

New York

8 Reefs

The world's largest reef system is located in what sea?

Coral Sea

9 Square Roots

What is the square root of .0025?

.05

10 Historical Literature

These nonfictional works are about what period in American history?

Angry Scar
Road to Reunion
Reunion and Reaction
The Tragic Era

Reconstruction

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 29

TOSS-UP

1 1 Symmetry

Isosceles trapezoids have how many axes of symmetry?

1

1 2 Russia

What fortified complex is the official residence of the president of the Russian Federation?

the Kremlin

1 3 Political Parties

Also known as the First Hamiltonian Party, what U.S. political party lost most of its support shortly after Andrew Jackson's victory in the Battle of New Orleans?

Federalist Party

BONUS

1 1 Meteorites

Iron meteorites are largely comprised of iron with some nickel. What type of meteorites consist mainly of silicate minerals?

stony (chondrites, aerolites)

1 2 Valleys

Usually formed through glaciation, what kind of valley abruptly ends in a cliff at its lower end?

hanging valley

1 3 History of Medicine

What aquatic, bloodsucking annelids were regularly used to remove "bad blood" from patients and to help restore the balance of bodily fluids?

leeches

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 30

TOSS-UP

1 Bad Foods

Oxidation of fats or oils causes foods to become what?

rancid

2 Theoretical Physics

Name the hypothetical, ideal radiator that totally absorbs and re-emits all energy incident upon it.

blackbody

3 Infections

Bacteremia is a bacterial infection of what?

blood

4 Statistical Distributions

What kind of distribution is represented graphically with two peaks?

bimodal

5 Colonial History

Which of the original thirteen colonies could be regarded as "The Catholic Experiment"?

Maryland

BONUS

1 Poetic Puking

What term that rhymes with "poetic" means an agent that causes vomiting?

emetic

2 Volcanic Winter

A massive eruption could trigger a volcanic winter by vastly increasing the amount of dust and sulfide compounds in the stratosphere. Such an event would dramatically increase the reflection of solar radiation and lower temperatures worldwide. What is the reflection of incident electromagnetic radiation from a surface called?

albedo

3 Combinations

In preparing to seek the elusive behemoth sturgeon, Rancid had four fishing rods and two fishing reels. How many different rod and reel combinations could he make?

8

4 Parts of Speech

Together, the first two words in this example function as what part of speech?

In order to make an omelet,
you have to break some eggs.

conjunction (subordinating conjunction)

5 Temperature Ranges

Why is the average annual temperature range in the middle latitudes of the Northern Hemisphere greater than that in the corresponding part of the Southern Hemisphere?

larger land masses in N. (more water in S.)

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TOSS-UP

6 Legislation

The "Lindbergh Law" of 1932 related to what felony?

kidnapping

7 Work

In joules, calculate the work done if a force of ten newtons moves an object two meters.

20 joules

8 Myth Allusions

What piece of furniture is brought to mind by this title of a fictitious novel?

Procrustes Stretched

bed

9 Plant Pathology

What fungal disease of plants is identified by white powdery spots on leaves and stems?

mildew (powdery mildew)

10 Stevenson

What novel by Robert Louis Stevenson could have been but was not given this title?

The Part of an Archipelago Housing
Accumulated Wealth in the Form of
Doubloons and Jewels

Treasure Island

BONUS

6 Mathematical Series

Find the sum of this series.
 $1 + 2 + 3 + 4 + 5$ etc.

infinite

7 Meteorological Instruments

A dropsonde dropped with a parachute from an aircraft is similar to what other device lifted into the sky by a balloon?

radiosonde

8 Dictionaries

Synopses about the lives of famous persons are in what type of dictionary?

biographical dictionary

9 Instrument Voices

While violins, clarinets, and flutes are classified as soprano instruments, what is the voice classification of cellos and bassoons?

baritone

10 Conditioning

The degree of movement and rotation possible in one's body and joints is called what?

flexibility

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 30

TOSS-UP

1 1 Triangle Angles

One acute angle in a right triangle is 30 degrees more than 3 times the other acute angle. What is the measure of the larger angle?

75 degrees

1 2 Cheese

What dried extract made from the stomach lining of ruminants is used in cheese making?

rennet

1 3 Attempted Assassinations

Who miraculously survived the explosion of a bomb placed near his feet by Colonel Stauffenberg in 1944?

Adolf Hitler

BONUS

1 1 Shared Names

Smaller than a frigate, what kind of small, maneuverable, lightly armed warship has the same name as a sports car first manufactured by Chevrolet in 1953?

corvette

1 2 Generals

What World War II general is remembered in part for his belief in reincarnation and for slapping a malingerer?

George Patton

1 3 Newspaper Writing

What is wrong with these newspaper headlines?
Red Tape Holds Up New Bridge
Enraged Cow Injures Farmer with Ax
Old School Pillars Are Replaced by Alumni
Police Begin Campaign to Run Down Jaywalkers
Quarter of a Million Chinese Live on Water

ambiguity

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 31

TOSS-UP

1 French Revolution

During the French Revolution, while the Girondists were the moderate Republicans, what were members of the radical faction called?

Jacobins

2 U.S. Territories

During the Civil War, what territory existed between the Dakota and Colorado territories?

Nebraska Territory

3 Naval Abbreviations

What kind of vessels are indicated by such U.S. Navy abbreviations as SSN, SSBN, SSG, or SSGN?

submarines

4 The U.N.

Name the geographically largest country that is a permanent member of the United Nations Security Council.

Russia

5 Literary Techniques

What literary technique with a name that is synonymous with "augmentation" and "expansion" is illustrated by this modified version of the sentence, "He was a dull fellow"?

He was an appallingly dull fellow, unimaginative, timid, lacking in initiative, spineless, easily dominated, humorless, tedious company, and irrepressibly drab and awful.

amplification

BONUS

1 Explorers

In 1871, contrary to rumors prevalent at the time, what American reporter found, very much alive, the missionary who had been the first European to see Victoria Falls?

Henry Stanley

2 Solvents

What is the solvent in a tincture?

alcohol

3 Beliefs

An anthropocentric believes that what is most important in the universe?

people (humans, man)

4 Ecological Classifications

Most plants and all animals are divided into what two major categories based on their respective energy sources?

producers, consumers

5 Slang

These are slang phrases in what country?

budgy smugglers
hit the tin
woop woop
yonks ago
nick off
do your lolly
chuck a wobbly
game as Ned Kelly

Australia

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 31

TOSS-UP

6 Fallacious Argument

Name the fallacy illustrated in these examples.

-Senator Cornpone is the best candidate for president because he is better than any of the others.

-Simpson is the most successful principal this school has ever had because he's the best principal this town has ever seen.

begging the question

7 Old West Tragedies

To what state were the emigrants heading when they left the main trail near Fort Bridger in Wyoming under the leadership of an Illinois man named George Donner?

California

8 Colonial Cities

What town became the political, social, and economic center of the South Carolina colony?

Charleston

9 Looking at Little Things

For what does the abbreviation stand in this line?
The STM is a microscope that enables us to actually see atoms.

scanning tunneling microscope

10 Greek Theater

What was the classification for the type of Greek play that was either a farce or a satire?

comedy

BONUS

6 A Meaty Question

What novel, published in 1906, includes gruesome descriptions of tubercular beef, the grinding up of poisoned rats, and workers falling into vats only to emerge as Durham's Pure Leaf Lard?

The Jungle

7 Dickens

Charles Dickens describes what character from "Oliver Twist" in these words?

He looked less like a man than some hideous phantom.

Fagin

8 Military Charges

What name was given to the desperate, suicidal, Japanese infantry charges against Allied forces in the Second World War?

banzai charge

9 Scientific Processes

As illustrated in some coffee makers, name the process of passing a liquid slowly through a filter.

percolation

10 Geologic Math

The distance between the continental shelves of western Norway and eastern Greenland is about 1300 km. If these land masses separated 65 million years ago, what is the average velocity of either plate in centimeters per year?

1 cm/year

ESU #6 High School Academic Quiz Bowl - 2017

Round Number 31

TOSS-UP

1 1 Quotes

What Shakespearean character has this line?
The pound of flesh 'tis mine and I will have it.

Shylock

1 2 Neurons

Neurons typically have three parts including the cell body, branched projections called dendrites that receive impulses from other cells and carry them toward the cell body, and what other structures that conduct impulses away from the cell body?

axons

1 3 Closing Doors

What law passed in 1921 limited the entry of persons from any nation to 3% of the foreign-born people of that nationality already resident in the U.S.?

Immigration Act

BONUS

1 1 Poems

Who is the central character in the poem from which these lines were taken?

All your strength is in your union
All your danger is in discord
Therefore be at peace henceforward
And as brothers live together.

Hiawatha

1 2 Deserts

Below are four of the five categories of deserts. Which is missing from this list?

subtropical
coastal
polar
interior

rainshadow

1 3 Depreciation

The original cost of a certain motorcycle was \$28,000. To the nearest hundred dollars, what is its value after four years if it depreciates 15% annually?

\$14,600

