

Regional Academic Bowl – Round 4

First Quarter

(1) This book series was heavily edited by its author's daughter, Rose Lane, and these books describe making maple candy in snow and the "Long Winter" of 1880 to 1881 in De Smet, South Dakota. Characters like Mr. Edwards and Almanzo appear in these books, which begin in Wisconsin's "Big Woods" before the Ingalls family travels west in a covered wagon. For ten points, name this semi-autobiographical series about Laura Ingalls Wilder's pioneer childhood.

ANSWER: **Little House** *on the Prairie*

(2) Boundary disputes with Spain created by this agreement were resolved by the Adams-Onís Treaty. This 15-million-dollar agreement was made to fund an invasion of England, and the Corps of Discovery was led by Lewis and Clark to explore the territory acquired by this agreement. For ten points, name this agreement that resulted in the United States gaining French territory west of the Mississippi.

ANSWER: **Louisiana Purchase** (or **Vente de la Louisiane**; accept any answer indicating the **buying** or **selling** of **Louisiana**)

(3) In proteins, this intermolecular force between amino acid residues contribute to the formation of secondary structures, such as alpha helices and beta sheets. Cyanoacrylate found in superglue forms this type of bonding with various surfaces, contributing to its remarkable adhesiveness. For ten points, name this weak bond that occurs between a highly electronegative atom and the lightest element in the periodic table.

ANSWER: **hydrogen** bond (accept **H**-bond)

(4) One character in this book asks, "How will he stand in the Newgate Calendar?" in reference to a character who is arrested during an incident with a snuffbox. Charley Bates appears in this novel, in which Monks is revealed to be the half-brother of the title character. Fagin is the leader of a group that includes the Artful Dodger. For ten points, name this novel by Charles Dickens in which the title character encounters a gang of pickpockets.

ANSWER: **Oliver Twist** or, *The Parish Boy's Progress*

(5) This nation's "Little Entente" with Yugoslavia and Czechoslovakia opposed Hungarian revisionism, and its "Conducator" Ion Antonescu joined the Axis Powers but was later overthrown in a 1944 royal coup. This nation's first unified state formed when Alexandru Ioan Cuza united Moldavia and Wallachia. Communist leader Nicolae Ceaușescu [[CHOW-chess-kyoo]] was executed on Christmas Day 1989 in, for ten points, what country governed from Bucharest? For ten points, name this country whose capital is Bucharest.

ANSWER: **Romania**

(6) The 2014 Nobel Prize in Physics was awarded for created LED lights emitting this color. This color can appear due to the Tyndall effect and Rayleigh scattering, and the Apollo 17 mission took a photograph comparing one object to a marble of this color. This color can be created from lapis lazuli and indigo, and Isaac Newton mistook this color for cyan. For ten points, name this primary color which Neptune and Earth's oceans appear as.

ANSWER: **blue**

(7) A "Berceuse" lullaby appears in a work titled for one of these animals by Igor Stravinsky. Just before the finale of *The Carnival of the Animals*, an *andantino grazioso* section titled for one of these animals is principally performed on cello, which inspired the signature ballet solo of Anna Pavlova. For ten points, name these animals, the subject of classical works such as *The Lark Ascending*.

ANSWER: **birds** (accept **firebird**; accept **swans**; accept *The Swan* or *Le cygne*; accept "The Dying **Swan**")

(8) This deity convinced his first wife, Metis, to turn into a fly and ate her to avoid a prophecy, and this god fathered the Horae and the Astraea with Themis. deity pretended to be a white bull to kidnap Europa, whom he transported to Crete to serve as the island's first queen, and this deity turned into a cloud to seduce Io, the princess of Argos. For ten points, name this husband of Hera and king of the Greek gods.

ANSWER: **Zeus** (do NOT accept or prompt on "Jupiter")

Second Quarter

(1) After this character falls asleep on the Statue of Liberty, Tom Wolfe appears at the Parringtons' fundraiser for him in a thinly veiled adaptation of Wolfe's article "Radical Chic." This character's 2006 and 2007 "Planet" and "World War" storylines inspired his appearance as a gladiator in the film *Thor: Ragnarok*. Lou Ferrigno [[feh-REEN-yoh]], Edward Norton, and Marc Ruffalo have portrayed, for ten points, what large green member of the Avengers?

ANSWER: **Hulk** (or The Incredible **Hulk**; or Bruce **Banner**; prompt on "Bruce"; do NOT accept or prompt on "David Banner")

BONUS: Stan Lee stated the creation of Hulk was inspired by the novella *Strange Case of Dr Jekyll and Mr Hyde* by this Scottish author of other classics like *Kidnapped* and *Treasure Island*.

ANSWER: Robert Louis **Stevenson**

(2) This practice was first proposed by George Hudson, in part so he could devote more time to his insect-collecting hobby. This practice has been shown to have resulted in a disruption to humans' circadian rhythms. This practice is not observed in areas closer to the Equator, including the states of Hawaii and Arizona. For ten points, name this practice where clocks are adjusted by one hour in the spring and fall.

ANSWER: **Daylight Saving Time** (accept **DST**; prompt on partial answers or generic descriptions of "adding or subtracting an hour in fall or spring")

BONUS: A longstanding myth is that this American founding father and first ambassador to France promoted Daylight Savings Time in various publications, including *Poor Richard's Almanack*.

ANSWER: Benjamin **Franklin**

(3) The Orkhon Inscriptions in this country describe the founding of the Second Khaganate by Ilterish Qaghan. In 1585 the Erdene Zuu monastery was founded on the site of this country's former capital, Karakorum, and, after the Xinhai Revolution, this country declared independence from China under Bogd Khan. For ten points, identify this Asian country where Burkhan Khaldun is located near the birthplace of Genghis Khan.

ANSWER: **Mongolia** (prompt on "Mongol Empire")

BONUS: The Orkhon Inscriptions were written in Chinese and the "Old" script of this language family, which includes Uzbek and Kazakh.

ANSWER: **Turkic** family (accept Old **Turkic** script)

(4) A 1996 adaptation of this work includes a delivery service called "Post-Haste" and was directed by Baz Luhrmann. This play popularized the phrase "Star-Crossed Lovers," and this play's third most prominent character, the Nurse, tells one character that another has slain Tybalt and been banished by Prince Escalus. For ten points, name this tragedy by William Shakespeare in which both namesake teenagers die by suicide.

ANSWER: **Romeo and Juliet**

BONUS: *Romeo and Juliet* begins with the line "In fair [this city], where we set our scene." This UNESCO world heritage city is now located in Italy's Veneto Region.

ANSWER: **Verona**

(5) These two people were the subject of a feud between them and S. P. Langley of the Smithsonian Institution. These two people ran a bike-shop in Dayton, Ohio, which developed their mechanical skills. A "flyer" named for these brothers was developed from gliders which were tested by them at Kitty Hawk. For ten points, name these American brothers who constructed the world's first heavier-than-air aircraft.

ANSWER: **Wright** brothers (accept **Wright** *Flyer*)

BONUS: The Wright brothers built the *Wright Flyer's* frame using ash, as well as wood from this tree, which also gives it name to the largest seaplane ever built, the Hughes H-4 Hercules.

ANSWER: **spruce** (accept *Spruce* **Goose**)

(6) A sniper from this country killed over 400 men before joining the Algonquin Regiment and was named Francis Pegahmagabow. Soldiers from this country who spoke French were separated into the 22nd "Van Doo" Regiment during World War One. Playing a pivotal role in the Battles of Ypres [[EEP-ruh]] and Passchendaele, for ten points, what is this North American country where troops historically departed from Halifax?

ANSWER: **Canada** (accept Dominion of **Canada**)

BONUS: This Liberal politician dominated Canadian politics following World War One and led it successfully through the end of World War Two as the longest-serving Canadian prime minister.

ANSWER: William Lyon Mackenzie **King**

(7) The formation of this object was described by Reginald Daly in the giant-impact hypothesis, or the Theia Impact. Large plains on this object are known as maria. When more than half of this object is illuminated, it is referred to as gibbous, and the apparent shape of this object to the eye is described as the lunar phase. For ten points, name this only satellite of the Earth which is always visible in the night sky.

ANSWER: Earth's **Moon** (accept the **Moon**)

BONUS: This lunar mare [[MAH-reh]] on the Moon was the landing site of Apollo 11. Despite its name, it is not an ocean but instead consists of fields of basalt.

ANSWER: **Sea of Tranquility** (or **Mare Tranquillitatis**)

(8) One of these people hosts Booker T. Washington in the Scott Joplin ragtime opera *A Guest of Honor*. One of these people is the title character in another opera that includes the ballet *The Red Detachment of Women*, which is viewed by one of these people as a guest of Mao Zedong in a work by John Adams. For ten points, identify these people, one of whom is the title character of the opera *Nixon in China*.

ANSWER: **president** of the United States

BONUS: This piece of music that takes its title from a work by Sir Walter Scott was popularized as the official anthem of the president of the United States by Sarah Polk, who wanted her husband to make a greater impression when entering a room.

ANSWER: "**Hail to the Chief**"

Third Quarter

The categories are:

1. Universal Monster Movies
2. Native American History
3. Famous Physicists

Universal Monster Movies

Concerning the Universal Classic Monsters line of movies from the 1930s, 1940s, and 1950s, name the...

(1) Egyptian monster who fronted the third installment in the Classic Collection.

ANSWER: *The Mummy*

(2) Blood-sucking title character played by Bela Lugosi who resides in a castle in Transylvania.

ANSWER: Count Dracula

(3) Canine monster portrayed by Lon Chaney Jr. in five films, beginning in 1941.

ANSWER: *The Wolf Man* (prompt on "werewolf")

(4) English author who provided the source material for *The Invisible Man*.

ANSWER: H. G. Wells (or Herbert George Wells)

(5) Edgar Allan Poe poem that inspired a 1935 film with an avian title.

ANSWER: *The Raven*

(6) "Who's on First?" comedy duo that met Frankenstein in one film.

ANSWER: Abbott and Costello (or William Alexander "Bud" Abbott and Louis Francis Costello)

Native American History

Concerning Native American history, name the...

(1) State whose name derives from a Native Confederation that included the land that would become Chicago.

ANSWER: **Illinois**

(2) Confederacy of tribes in upstate New York that included the Mohawk and Seneca, who used wampum as currency.

ANSWER: **Iroquois** Confederacy (or the **Haudenosaunee**; accept the **Five Nations**)

(3) Tribe led by Sequoyah who were subjected to the Trail of Tears.

ANSWER: **Cherokee** (or **Tsalagi**)

(4) Tribe whose over two dozen code talkers transmitted messages during World War Two.

ANSWER: **Navajo** (or **Diné**)

(5) Nez Perce chief who stated, "I will fight no more forever," following a retreat.

ANSWER: Chief **Joseph** (or Young **Joseph**; or **Hinmatóowyahtqí**)

(6) Chief of the Suquamish and Duwamish peoples who stated, "The dead are not powerless," and now lends his name to a large city in the Pacific Northwest.

ANSWER: Chief **Seattle** (or Chief **Sealth**)

Famous Physicists

Concerning famous physicists, name the...

(1) Ivy League university in New York City where Leo Szilard worked on the Manhattan Project.

ANSWER: **Columbia** University

(2) British physicist and lord who names a temperature scale that starts at absolute zero and is symbolized K.

ANSWER: Lord **Kelvin** (or William **Thomson**; or 1st Baron **Kelvin**)

(3) Austrian quantum theorist who coined the term "quantum entanglement" and names a thought experiment involving a cat.

ANSWER: Erwin **Schrödinger** (or Erwin Rudolf Josef Alexander **Schrödinger**)

(4) Process discovered by Lise Meitner in which an atom's nucleus splits into two or more lighter nuclei.

ANSWER: nuclear **fission**

(5) English physicist who studied electromagnetism and names the SI unit of capacitance.

ANSWER: Michael **Faraday**

(6) British physicist whose namesake equation was used to theorize the existence of antimatter.

ANSWER: Paul **Dirac** (or Paul Adrien Maurice **Dirac**)

Fourth Quarter

(1) This country fought a brutal 1980s war with its western neighbor, which saw the implementation of human waves attack and an invasion of Khuzestan. Mohammed (+) Mossadegh was overthrown in this country in Operation Ajax, an event which resulted in the cementing of the Shah's power. (*) For ten points, name this country where Shah Reza Pahlavi was overthrown in 1979 in favor of a Shia Islamic theocracy.

ANSWER: Iran

(2) This figure's early writings on motion were collected in *De motu antiquiora*. The phrase, "And yet it moves," (+) is attributed to this person, who was born in the city of Pisa. The rings of Saturn were observed after this person made improvements to the (*) telescope. For ten points, name this Renaissance Italian astronomer who was the subject of a 1633 trial over his belief in the Sun being the center of the universe.

ANSWER: Galileo Galilei (accept either underlined part; or Galileo di Vincenzo Bonaiuti de' Galilei)

(3) This fictional street is found within the actual town of Surrey. Arabella Figg is one resident of this fictional Little Whinging [[WIN-jing]] street to which one resident returns (+) every summer. When this street was first filmed, 12 Picket Post Close in the town of Bracknell in Berkshire, 25 miles west of London, stood in as (*) number four. For ten points, name this fictional street found south of London, the home of the Dursleys in the *Harry Potter* franchise.

ANSWER: Privet Drive (accept Number 4, Privet Drive)

(4) By the "k-percent rule," one economist claimed that a form of this quantity should be increased by a constant annual percentage. Prices often lower with (+) increases in this quantity. The "labor" variety of this quantity is calculated as the number of workers willing to work at a given price. (*) For ten points, what quantity, often representing the amount of goods that can be provided to a marketplace, is often contrasted with demand?

ANSWER: supply (accept money supply or labor supply)

(5) In programming, these symbols can be declared as global or local in scope, and polymorphism allows these symbols to refer to objects of different types. In statistics, independent and dependent types of these (+) symbols are crucial in experimental design. Constants are the counterpart to these symbols in equations. (*) For ten points, name these symbols in mathematics and programming that represent changeable values, often represented by a letter.

ANSWER: variables

(6) **Edvard Munch painted a version of this statue in the Lindesche Villa. This work was originally intended to be part of its sculptor's *The Gates of Hell*, in which the central figure would (+) perch above the doorway. The central figure of this sculpture places his elbow on his knee and rests his chin on his hand. Known as (*) *Le Penseur* in its native language, for ten points, what is this sculpture of a pensive figure by Auguste Rodin [[roh-DAHNN]]?**

ANSWER: The **Thinker** (accept *Le Penseur* before read; accept *The Poet*; accept *Le Poete*)

(7) **The vellus form of this protein filament is not connected to a sebaceous gland and is different from the androgenic form that occurs after puberty, or the lanugo form that appears on infants. (+) Hirsutism is the increase in the amount of this material, which can be lost when disease and stress trigger (*) alopecia areata. The skin contains follicles with, for ten points, what material that generally cover our heads?**

ANSWER: **hair**

(8) **Lees Ferry is the only location for hundreds of miles in which this river can be accessed from both sides. John Wesley Powell was the earliest known individual to run a set of (+) rapids in this river. The Gila [[HEE-lah]] is a tributary of this river, which passes through cities like Moab and Yuma. Starting in the (*) Rocky Mountains, this is, for ten points, what river that passes through the Grand Canyon?**

ANSWER: **Colorado** River (or Río **Colorado**)

Extra Question

(1) **These animals are the only hosts within which the toxoplasmosis parasite can reproduce sexually. Along with members of the family Viverridae, nearly all of these animals are able to create a low (+) rumbling noise believed to aid in bone regeneration. One behavior engaged in by these animals may imitate stimulating milk production and is called (*) kneading. For ten points, name these animals, whose domesticated types include tabbies and calicos.**

ANSWER: **cats** (or **felids**; or **felines**)

BONUS: Cyprus, Corsica, and Sardinia are islands that are located in this body of water between North Africa and Southern Europe.

ANSWER: **Mediterranean** Sea