

Regional Academic Bowl Round 4

Round 4 First Half

(1) After one signatory refused to abide by this document, "Marshal of the Army of God and Holy Church" Robert Fitzwalter led a popular uprising that was backed by Louis VIII. Pope Innocent III declared this document void, leading to the First Barons' War. This document was signed after a king's defeat at the Battle of Bouvines. For ten points, name this agreement limiting the power of the British monarch, which was signed at Runnymede by King John.

ANSWER: **Magna Carta** Libertatum

(bonus) This group included a radical faction known as the Taborites until their destruction at the Battle of Lipany. For ten points each,

* Name these Czech rebels who followed an early Protestant reformer of the 15th century. John Zizka later led them in namesake wars against the Papacy and the Holy Roman Empire.

ANSWER: **Hussites** (accept **Chalice People**; prompt on "Jan Hus")

* Members of the Hussites committed the First Defenestration of this Bohemian city. The Second Defenestration of this modern capital of Czechia began the Thirty Years' War.

ANSWER: **Prague** (or **Praha**)

* This military leader threatened to lead a crusader army against the Hussites in a 1430 letter, shortly before her capture by Burgundian forces at Compiègne [[com-pee-EHN]].

ANSWER: **Joan of Arc** (or **Jeanne d'Arc**)

(2) If a tangent line has this property, the derivative of a function does not exist at that point. The function "one over x-squared" has an asymptote [[AH-simp-tote]] with this property at "x equals zero." Whether a graph is or is not a function can be determined using a "line test" named for this property. The slopes of lines with this property are undefined. For ten points, name this property of lines, contrasted with horizontal.

ANSWER: **Verticality** (accept **Vertical** Lines or **Verticalness**)

(bonus) Examples of these shapes include the Koch Snowflake and the Mandelbrot Set. For ten points each,

* Name this type of mathematical object which exhibits self-similarity at increasingly smaller scales.

ANSWER: **Fractals**

* The Menger Sponge, a fractal generalization of the Cantor Set and Sierpinski [[sir-PIN-skee]] Carpet, is in the shape of this common 3D object.

ANSWER: **Cube** (prompt on "Rectangular Prism")

* Both Benoit Mandelbrot [[ben-WAH MAN-del-braht]] and Waclaw Sierpiński [[VAH-klahv sir-PIN-skee]] were both born in what is today this modern-day Eastern European country. Stanislaw Zaremba contributed to this modern country's flourishing mathematical community between the World Wars.

ANSWER: Republic of **Poland** (or Rzeczpospolita **Polska**)

(3) One painting by this artist depicts a poor family in a dimly lit room about to consume the title vegetables. This artist's "peasant character studies" includes that painting, *The Potato Eaters*. While living in Arles [[ARL]], this artist created two still-life paintings depicting sunflowers. During a fight with Paul Gauguin [[goh-GAHN]], this painter cut off part of his left ear. For ten points, name this Dutch painter, the creator of the painting *Starry Night*.

ANSWER: Vincent **Van Gogh** (accept pronunciation as [[van GOH]] or [[van GAHKH]])

(bonus) This natural protein fiber is used to create fabrics like charmeuse [[shar-MYUHS]] and dupioni [[doo-PYOH-nee]]. For ten points each,

* Name this material, produced by the larvae of moths, which was first developed in China.

ANSWER: **Silk**

* Silk, as well as the newly-created synthetic fiber nylon, were heavily rationed to allow for parachute production during what 20th-century war?

ANSWER: **World War Two** (accept **Second World War**)

* When fabric rationing was lifted after the war, this French fashion designer created the New Look, a style characterized by small waists and full skirts.

ANSWER: Christian **Dior**

(4) In a Strindberg work partly titled for these beings, Jacob Hummel hangs himself during a dinner party after the Colonel's wife unveils his seedy past. Charles Condomine's [[con-doh-MEENS]] first wife, Elvira, is one of these beings in Noel Coward's play *Blithe Spirit*. The former governess Miss Jessel appears as one of these beings in Henry James's *The Turn of the Screw*, supposedly to corrupt Flora. For ten points, name these spooky apparitions, such as Jacob Marley in *A Christmas Carol*.

ANSWER: **Ghosts** (accept **Ghost Sonata** ; accept **Spirits** ; accept **Apparitions** before mentioned)

(bonus) A 17th-century poem in this form reads, "The ancient pond / A frog leaps in / The sound of the water." For ten points each,

* Name this form of poetry originating in Japan. This type of poetry consists of three lines which follow a five-seven-five syllable scheme.

ANSWER: **Haikus** (accept **Hokku** ; accept **Haibun**)

* The aforementioned "frog" poem was written by this master of the haiku. This Japanese poet received his nickname from a banana tree near his hut and wrote the collection *The Narrow Road to the Deep North*.

ANSWER: Matsuo **Basho** (accept **Matsuo**)

* Basho wrote an anthology titled for this animal's "Raincoat." One of these animals from *Journey to the West* named Sun Wukong wields an extending golden-banded staff.

ANSWER: **Monkey**

(5) According to Charles's law, when pressure is held constant, volume is directly proportional to this phenomenon, which is measured in chemical reactions by a calorimeter. Exothermic reactions are characterized by the replacement of weak bonds with stronger ones and the release of this phenomenon. This type of energy is transferred through convection, conduction, and radiation. For ten points, name this type of energy, which is measured in degrees Fahrenheit.

ANSWER: **Heat** (prompt on "energy" before mentioned; accept **temperature** before "calorimeter")

(bonus) When temperature and number of molecules are held constant, Boyle's law predicts this kind of relationship between a gas's volume and pressure. For ten points each,

* Name this type of mathematical relationship, also observed by speed and travel time, in which an increase in one variable causes a decrease in another.

ANSWER: **Inverse** relationship (accept **Indirect** relationship)

* This force of attraction between any two objects with mass is modeled by an inverse-square relationship, so a planet twice as far from a star experiences one-fourth the strength of this force.

ANSWER: **Gravity** (accept **Gravitational**)

* While the luminosity of a star is constant, this quantity, the amount of starlight detected by an observer on Earth, also varies as the inverse-square of distance.

ANSWER: Apparent **brightness** (accept Apparent **magnitude**)

(6) This river's origin is located at a series of seven cataracts called Boyoma Falls. The major tributaries of this river include the Lualaba and Chambeshi Rivers. The course of this river is believed to have separated the ancestors of chimpanzees and bonobos, leading to their allopatric speciation. For ten points, name this second-longest river in Africa, formerly known as Zaire, which lends its name to two countries governed from Brazzaville and Kinshasa.

ANSWER: **Congo** River (accept **Zaire** River before mentioned)

(bonus) In the 20th century, a tributary of this river named for the Osage [[OH-sed]] people was converted into the Harry S. Truman Reservoir and Lake of the Ozarks. For ten points each,

* Name this river which, with the Mississippi river, forms the longest river system in North America and the fourth longest in the world.

ANSWER: **Missouri** River

* The metropolitan area of this city borders the point at which the Missouri meets with the Mississippi. This city was named to honor the only canonized king of France.

ANSWER: **St. Louis**

* The Army Corps of Engineers created the Ft. Peck Dam along the Missouri in this U.S. state. This state's Three Forks region is known as the "birthplace" of the Missouri River.

ANSWER: **Montana**

(7) This character often carries a copy of Cotton Mather's *History of New England Witchcraft*. This man vies for the attention and affection of the wealthy Katrina van Tassel in direct competition with Brom Bones. The ghost of a Hessian soldier presumably kills this lanky schoolteacher, whose only remains are his hat alongside a smashed pumpkin. For ten points, name this schoolmaster, the prey of the Headless Horseman in *The Legend of Sleepy Hollow*.

ANSWER: Ichabod **Crane** (accept **Ichabod**)

(bonus) The protagonist of this work has his boat dragged by a huge fish for two days and nights and is later unable to prevent sharks from eating its carcass. For ten points each,

* Name this novella about the fisherman Santiago, who catches a giant marlin after 84 days without any luck.

ANSWER: *The **Old Man and the Sea***

* This American author of *The Old Man and the Sea* also wrote *The Sun Also Rises*.

ANSWER: Ernest **Hemingway**

* In *The Old Man and the Sea*, Manolin visits Santiago to talk about the "great [this man]." He is referencing this baseball player, known as "The Yankee Clipper," who holds the all-time record with a 56-game hitting streak.

ANSWER: Joe **DiMaggio**

(8) In one story, this god fails to lift a cat, which is actually the serpent Jörmungandr [[YOR-mun-gan-der]] in disguise. The goats "Teeth-barer" and "Teeth-grinder" pull this god's chariot. This god retrieved a weapon from the giant Thrymr [[THRIM-er]], king of the jotnar [[YOAT-nar]]. Módi and Magni are this god's sons, while this god's wife is named Sif. For ten points, name this Norse god, the son of Odin and wielder of the hammer Mjölner [[MYUHL-neer]].

ANSWER: **Thor**

(bonus) A citadel in Megara served as the official oracle of this deity in the Hellenic world. For ten points each,

* Name this mother of Thanatos and Hypnos. This deity was the Greek personification of night.

ANSWER: **Nyx**

* According to Hesiod [[HESS-ee-ud]], Nyx's final child was this ferryman of the underworld who only allowed the dead to cross the river Styx once they paid him a coin.

ANSWER: **Charon** [[KARE-on]]

* Charon was subservient to this underworld deity of Greek myth, a brother of Zeus.

ANSWER: **Hades** (do not accept or prompt on "Pluto")

Round 4 Halftime

The categories are:

1. J.R.R. Tolkien
2. Famous Native Americans
3. Albert Einstein

J.R.R. Tolkien

Name the...

(1) Children's fantasy novel by Tolkien titled for a halfling.

ANSWER: *The **Hobbit***

(2) Collective name of Tolkien's fantasy trilogy featuring characters such as Sauron and Aragorn.

ANSWER: *The **Lord of the Rings***

(3) Halfling hired by Thorin Oakenshield as a burglar.

ANSWER: **Bilbo Baggins**

(4) First name of Tolkien's youngest son who edited much of his father's posthumous work.

ANSWER: **Christopher** Tolkien

(5) Oxford literary discussion group of which Tolkien and C.S. Lewis were members in the 1930s and 40s.

ANSWER: The **Inklings**

(6) Collection of Tolkien stories whose *Ainulindalë* [[eye-noo-LIN-dah-leh]] describes Middle-Earth's creation.

ANSWER: *The **Silmarillion***

(7)

ANSWER:

(8)

ANSWER:

Famous Native Americans

Name the...

(1) Daughter of Powhatan who married John Rolfe and assisted John Smith's Jamestown colony.

ANSWER: **Pocahontas** (accept **Matoaka**; accept **Rebecca Rolfe**)

(2) Shoshone woman who served as a guide and interpreter on the Lewis and Clark expedition.

ANSWER: **Sacagawea** (accept **Sakakawea**)

(3) Apache warrior who surrendered to General Nelson Miles, whose name was later used by paratroopers when jumping out of planes.

ANSWER: **Geronimo** (accept **Gokliya**; accept **Goyahkla**)

(4) Shawnee leader and brother of "The Prophet" who was killed by Richard Mentor Johnson at the Battle of the Thames [[TEMS]].

ANSWER: **Tecumseh**

(5) Nez Perce chief who famously declared that "I will fight no more forever."

ANSWER: Chief **Joseph** (accept Young **Joseph**; accept **Hinmatóowyahtqít**)

(6) Leader in the Apache Wars who led an 1861 uprising and signed a treaty with the U.S. army in 1872.

ANSWER: **Cochise** (or **Shi-ka-She**; or **A-da-tli-chi**)

(7)

ANSWER:

(8)

ANSWER:

Albert Einstein

Name the...

(1) Field in which Einstein won his Nobel Prize in 1921.

ANSWER: **Physics**

(2) Empire in which Einstein's birthplace of Ulm was found at the time.

ANSWER: **German** Empire (accept Imperial State of **Germany**; accept Imperial **Germany**; accept **Second Reich**; accept **Kaiserreich**)

(3) Creature that makes a "hole" which lends its name to the Einstein-Rosen Bridge, a theoretical links between points in spacetime.

ANSWER: **Worm**

(4) Random movement of a particle in a viscous fluid, first explained by Einstein in a 1905 paper and named for a Scottish botanist.

ANSWER: **Brownian** motion

(5) Effect in which electrons are emitted when light shines on a material, the explanation for which won Einstein the 1921 Nobel Prize in Physics.

ANSWER: **Photoelectric** effect

(6) Indian theoretical physicist with whom Einstein developed a "condensate" phase of matter.

ANSWER: Satyendra Nath **Bose**

(7)

ANSWER:

(8)

ANSWER:

Round 4 Second Half

(1) This conflict was officially described as a "police action" because the president never asked Congress to pass an official declaration of war. During this conflict, Douglas MacArthur was relieved of command due to his public interest in using nuclear weapons on China. This conflict's namesake region was divided by the 38th parallel. For ten points, name this conflict which centered on an East Asian peninsula, home to the cities of Pyongyang and Seoul.

ANSWER: **Korean War** (accept **Fatherland Liberation War**; accept **Hanguk Jeonjaeng**)

(bonus) The Great Encirclement Campaign in Jiangxi [ZHONG-she]] partially led to this large-scale military maneuver. For ten points each,

* Name this year-long trek in the 1930s which ended with the establishment of a Communist base in Yan'an.

ANSWER: The **Long March**

* This future Chairman of the People's Republic of China led the Long March.

ANSWER: Chairman **Mao Zedong** (prompt on "Zedong")

* This rival of Mao and head of the Kuomintang [[kwoh-min-TAHNG]] spearheaded the Great Encirclement campaign, forcing the retreat of Mao's People's Army.

ANSWER: **Chiang Kai-shek** (accept **Jiang Jieshi**; prompt on "Kai-shek" or "Jieshi")

(2) This phenomenon can fuse soil and rocks to form fulgurite. The Miller-Urey experiment tested the theory that this phenomenon may have created chemical precursors to life. St. Elmo's Fire was considered a warning of an imminent occurrence of this phenomenon, against which Benjamin Franklin protected houses by inventing an attachable metal rod. For ten points, name this electrostatic discharge, a common weather phenomenon, typically followed by thunder.

ANSWER: **Lightning** (prompt on "electricity")

(bonus) This object was launched from the Baikonur Cosmodrome in modern-day Kazakhstan. For ten points each,

* Name this first artificial Earth satellite, the launch of which triggered the Space Race.

ANSWER: **Sputnik 1**

* The Cosmodrome's launch pad is now named for this cosmonaut, whose 1961 flight on Vostok 1 made him the first human in space.

ANSWER: Yuri **Gagarin**

* This family of Soviet rockets, whose name translates to "Union," debuted in 1966 and was, from 2011 to 2020, the only type of rocket approved to transport astronauts to the International Space Station.

ANSWER: **Soyuz**

(3) William Pereira designed an eight-story, concrete one of these buildings named in honor of the Geisel family in San Diego. The Seattle Central one of these buildings, designed by Rem Koolhaas, opened in 2004. The workshop of the Piccirilli Brothers sculpted two lions nicknamed Patience and Fortitude which sit outside a public one of these buildings in New York City. The Boston Athenaeum is an example of, for ten points, what buildings which may contain reading rooms and rare book collections?

ANSWER: **Library** (or **Libraries**)

(bonus) The 2020 presidential election was controversial in many ways. For ten points each,

* In a taped phone call, this person requested that an election official from Georgia "find" over 11,000 more votes.

ANSWER: Donald **Trump**

* Some GOP officials claimed that many voting machines owned by this company, with headquarters in Toronto and Denver, had been hacked.

ANSWER: **Dominion** Voting Systems Corporation

* Democrats objected when only one ballot drop box was provided for the whole of this Texas county, home to Houston.

ANSWER: **Harris**

(4) The function of these organs is measured with a spirometer. These organs, alongside the kidneys, are targeted in Goodpasture Syndrome. A namesake surfactant is produced by the sack-like alveoli [[al-vee-OH-lye]] in these organs, which are expanded by the movement of the diaphragm. Common diseases affecting these organs include pneumonia and asthma. For ten points, name these paired organs which are used by humans to breathe.

ANSWER: **Lungs**

(bonus) Meningitis is an inflammation of the meninges, protective membranes covering the spinal cord and this organ. For ten points each,

* What is this organ affected directly by meningitis?

ANSWER: **Brain**

* What continent is subject to the annual outbreak of meningitis from December to June known as the "meningitis belt"?

ANSWER: **Africa**

* Name the neurological disorder involving severe seizures that can be an after-effect of meningitis. It takes its name from the Greek words for "upon" and "take hold of."

ANSWER: **Epilepsy** (accept **Epileptic** seizures)

(5) The book of Deuteronomy mentions the levirate [[LEH-ver-it]] type of this event, involving the brother of a childless deceased man. Hindu and Muslim women often apply *mehndi* skin decorations prior to one of these events, while Chinese tradition requires a tea ceremony. In the Catholic Church, this event is one of the seven sacraments and is carried out in front of a priest. For ten points, name these events which can be undone with an annulment or divorce.

ANSWER: **Wedding** (or **Marriage**)

(bonus) The thinker Maimonides attempted to justify these dietary laws in his work *Guide to the Perplexed*. For ten points each,

* Name these Jewish dietary laws whose name translates to "fit for consumption."

ANSWER: **Kosher** (accept **Kashrut**)

* In contrast with *Halal*, this Arabic word for "Forbidden" is used in reference to sinful actions which a Muslim should avoid.

ANSWER: **Haram**

* This meat, considered *Haram* in Islam, is shunned since it is considered derivative of a dirty beast.

ANSWER: **Pork** (accept **Pigs**)

(6) This composer's Serenade Number 13 begins with a Mannheim rocket theme. Franz Sussmayr finished a D-minor work by this composer, who had only completed eight measures of its *Lacrymosa* movement. The Köchel [[KUHR-kuhl]] Catalogue lists the works of this composer, including his unfinished *Requiem*. For ten points, name this prolific composer of 41 symphonies, *Eine Kleine Nachtmusik* [[EYE-nuh KLY-nuh nahkt-moo-ZEEK]], and the opera *The Marriage of Figaro*.

ANSWER: Wolfgang Amadeus **Mozart**

(bonus) This songwriter included the line "we just come from such different sets of circumstance" on her song "Coyote." For ten points each,

* Name this Canadian singer-songwriter who sang about how "they paved paradise" in a song she wrote called "Big Yellow Taxi."

ANSWER: Joni **Mitchell**

* Mitchell wrote a song titled for this 1969 music festival in Upstate New York, at which Jimi Hendrix played a psychedelic version of the national anthem.

ANSWER: **Woodstock** Music & Art Fair (or **Woodstock** Rock Festival)

* Mitchell collaborated with a player of this instrument named Charles Mingus on the album *Mingus*. This is the lowest-pitched string instrument.

ANSWER: Double **bass** (accept String **bass**; accept Upright **bass**)

(7) A woman from this tribe named Florence Owen Thompson served as the subject of *Migrant Mother* by Dorothea Lange. The oldest public building still standing in Oklahoma is this Native American nation's capitol building in Tahlequah [[TAH-leh-kwah]]. Sequoyah created a codified syllabary for this tribe, which quickly surpassed the literacy rate of the surrounding Europeans. For ten points, name this member of the "Five Civilized Tribes" which endured the Trail of Tears.

ANSWER: **Cherokee** (accept **Tsalagi**)

(bonus) On Easter Sunday, former Confederates and other white militia rounded up members of a Black militia and forced them into a courthouse during this event. For ten points each,

* Name this 1873 massacre of Black freedmen by members of the White League, culminating in the burning of the Grant Parish courthouse.

ANSWER: **Colfax** Massacre

* Grant Parish, the site of the Colfax Massacre, is one of the 64 parishes found in this Southern state.

ANSWER: **Louisiana**

* A case concerning the Colfax Massacre titled *Cruikshank v. U.S.* stated that this Grant-era Act, named for a hate group, could not be applied to the actions of an individual perpetrator.

ANSWER: First **Ku Klux Klan** Act (accept **KKK**; accept the **Enforcement** Act)

(8) The protagonist of this novel is banished for urinating on a fire, after which he takes a boat to Blefuscu [[BLEF-oo-skoo]]. This novel features a race of talking horses who own humanoid creatures called Yahoos. A location in this novel is an advanced flying island known as Laputa. The protagonist of this novel visits Glubbudrib and Lilliput. For ten points, name this novel which details the title character's journeys to fantastical lands, written by Jonathan Swift.

ANSWER: ***Gulliver's Travels*** (or ***Travels into Several Remote Nations of the World. In Four Parts. By Lemuel Gulliver, First a Surgeon, and then a Captain of Several Ships***)

(bonus) Neil Gaiman wrote a horror short story collection which parodies this author's children collection title *Now We Are Six*, instead titling it *Now We Are Sick*. For ten points each,

* Name this British author who created many denizens of the One Hundred Acre Wood, as well as a child named Christopher Robin, based on his own son.

ANSWER: A.A. **Milne** (accept Alan Alexander **Milne**)

* A bear from the capital of Manitoba inspired A.A. Milne to create this honey-loving bear whose best friend is Piglet.

ANSWER: **Winnie** the **Pooh** (accept either underlined portion)

* These Milne creations only appear in Pooh and Piglet's dreams, although the two characters attempt to capture these elephant-like creatures multiple times.

ANSWER: **Heffalumps**

Extra Question

(1) Karlheinz Stockhausen experimented with the sounds produced by a massive, five-foot example of these instruments in *Mikrophonie I*. These instruments are sometimes designed to produce a beat note in Indonesian Gamelan [[GAH-meh-lahn]] music. Suspended, bossed, and bowl are the three main varieties of these instruments. A type of these instruments called a tam-tam is commonly found in the percussion section of contemporary orchestras. For ten points, name this instrument, essentially a metal disc struck by a mallet.

ANSWER: **Gong** (accept **Tam-Tams** before mentioned)

(bonus) The *New York Times* falsely reported that this power was using weapons dubbed *Foo Fighters*. For ten points each,

* Name this nationality of the scientists, such as V2 rocket creator Werner von Braun, who were brought over to the United States in Operation Paperclip.

ANSWER: Nazi **Germany** (accept **German**; accept Greater **German** Reich; accept **Third Reich**)

* Many of those Nazi scientists contributed to the development of Saturn V [[FIVE]] rockets, which were eventually used by this mission to reach the Moon.

ANSWER: **Apollo 11** (Prompt on "Apollo")

* The contemporaneous Operation Lusty aimed to seize advanced aircraft parts from this German air force.

ANSWER: **Luftwaffe** [[LOOFT-vah-fuh]]