Academic Bee 2 - Round 3

Round 3 Tossups

(1)   One of this writer's works parodied Oliver Goldsmith's *History of England*, and the title of another work by this writer that parodied romantic novels contains the word "friendship" but misspelled. Another work by this author featured Catherine Morland as its protagonist. This writer's novel *Persuasion* was the only one published posthumously. For the point, name this English author known for works such as *Northanger Abbey* and *Pride and Prejudice*.

ANSWER: Jane **Austen**

(2)   This ruler awarded 12,000 *mithqals* of gold dust to architect al-Sahili for his construction of the Djinguereber [[jing-GEHR-eh-behr]] Mosque. While abroad, this ruler's general, Sagaman-dir, captured the city of Gao and subjugated the Songhai Kingdom. This grandson of Sundiata Keita built the University of Sankore, an Islamic center of learning. For the point, name this *mansa* of the Mali Empire who devalued the worth of gold while on the *hajj*.

ANSWER: Mansa **Musa** I

(3)   Chemotherapy drugs such as tamoxifen [[tam-OKS-ih-fen]] target the factors needed for this process to occur. Bacterial operons regulate this process for an entire set of genes under a single promoter, while retroviruses like HIV perform a reverse form of this process to build complementary DNA. For the point, name this process in which a polymerase enzyme reads a gene to make a strand of messenger RNA.

ANSWER: **Transcription** (accept word forms like **Transcribing**; prompt on "gene expression")

(4)   Louis Malle [[MAHL]] employed this artist to create the soundtrack for his film *Elevator to the Gallows*. With frequent collaborator Gil Evans, this artist released a cover of George Gershwin's opera, *Porgy and Bess*, utilizing modal jazz. This man's recordings as a member of Charlie "Bird" Parker's quintet in the 1940s were compiled into the album, *Birth of the Cool*. For the point, name this jazz artist of *Kind of Blue*, a famed trumpeter.

ANSWER: Miles **Davis**

(5)   In this faith, Mithra, Sraosha [[SROH-shah]], and Rashnu judge a person while at the Bridge of the Requiter. This faith was brought to the Caucasus after the conquest by Shapur the Great and Khosrau I of the Sassanid Dynasty. Adherents to this Iranian faith believe in an eternal struggle between Angra Mainyu [[MINE-yoo]] and Ahura Mazda. Worshipping in fire temples, for the point, what is this dualistic faith which follows the teaching of Zarathustra?

ANSWER: **Zoroastrian**ism (or **Mazdayasna**)

(6)   Shepherds in the 1950s accidentally lit a flame on this country's *Yanar Dag*, or "Burning Mountain," which continued due to the presence of natural gas. This nation, which borders the Dagestan Autonomous Republic of Russia, includes an exclave called Nakhichevan [[nah-kee-CHEH-vahn]]. In 2020, this nation resumed conflict for six weeks along the Nagorno-Karabakh [[GAH-RAH-BAHK]] "Line of Contact" with its neighbor, Armenia. For the point, name this nation in the Caucasus whose capital of Baku is on the Caspian Sea.

ANSWER: Republic of **Azerbaijan** (accept **Azerbaycan** Respublikasi)

(7)   This poem exclaims, "Boys sobbing in armies! Old men weeping in the parks!" after asking about a "sphinx of cement and aluminum." The speaker of this poem says, "While you are not safe I am not safe" and repeatedly tells a psychiatric patient, "I am with you in Rockland." This poem, dedicated to Carl Solomon, begins with the line "I saw the best minds of my generation destroyed by madness." For the point, name this Beat Generation poem by Allen Ginsberg.

ANSWER: "**Howl** for Carl Solomon"

(8)   The Treaty of Casco ended this war, recognizing English rights to colonize the eastern seaboard. During this war, Josiah Winslow fought off a coalition of Narragansetts and Pequots [[PEE-kwahts]] in The Great Swamp Fight. A son of Massasoit [[mass-ah-SOYT]], one namesake of this war, was killed by Indian convert John Alderman, who was fighting for the Plymouth Colony. For the point, name this colonial war between the British and the Wampanoag [[wahm-pah-NOH-ag]] who were led by Metacomet [[met-ah-KOH-met]], who adopted a European name.

ANSWER: **King Philip**'s War (accept **Metacomet**'s War or **Metacom**'s War before mentioned)

(9)   The distance traveled by a compound examined using this technique is measured with the retention factor. This technique moves the examined substance up the stationary phase with the mobile phase. The "thin layer" form of this technique can be used to distinguish varieties of pigments in plants, and a home version of this technique can be done with markers and filter paper. For the point, name this lab technique which separates compounds by color.

ANSWER: **Chromatography**

(10)   A tub holds scenes of this artist's childhood bout with polio as well as the Empire State building protruding out of a volcano in *What the Water Gave Me*. This artist rendered the painful aftermath of a bus accident during her adolescence in the painting, *The Broken Column*. This artist painted self-portraits with *Thorn Necklace and Hummingbird* and *With Monkey*. For the point, name this Mexican surrealist, the spouse of muralist Diego Rivera.

ANSWER: Frida **Kahlo**

(11)   Found between the Providence Mountains and the city of Baker, this desert's region called the "Devil's Playground" is forty miles of unbroken sand dunes. Known to the local Paiutes [[PAI-yoots]] as *Nuvagantu* [[noo-vah-GAHN-too]], this desert's Mount Charleston overlooks Clark County. This desert's borders are delineated by the Joshua tree, which exclusively grows there. For the point, name this desert primarily in Southeastern California and Southern Nevada, in which Las Vegas and Death Valley are located.

ANSWER: **Mojave** [[mo-HAH-veh]] Desert (accept **Devil's Playground** before mentioned)

(12)   In the last section of this novel, one man accepts Christianity after realizing during a violent storm that he loves his infant son. Also in this novel, a count takes up the cause of the Slavs who are fighting to be free of Turkish rule. Those plotlines contrast with the death of this novel's title character, whose jealousy surrounding her extramarital relationship with Vronsky causes her to jump in front of a train. For the point, name this novel by Leo Tolstoy.

ANSWER: ***Anna Karenina*** [[kah-REN-ih-nuh]]

(13)   During the Lakehurst experiments, the U.S. developed four of these objects, including the doomed USS *Shenandoah*. In 1916, Sopwith Camels came outfitted with bullets filled with the oxidant potassium chlorate to defend against these vehicles. One of these vehicles named for a former Weimar [[VAI-mar]] president caught fire in a field in New Jersey in 1937. For the point, what are these dirigibles, named for their German inventor, whose popularity waned after the Hindenburg disaster?

ANSWER: **Zeppelin**s (accept **Dirigible**s before mentioned; prompt on "Airship"; do not accept or prompt on "Blimp")

(14)   In insects, this system triggers diapause and molting. Acromegaly [[ak-roh-MEH-gah-lee]], which is marked by enlarged hands and feet, is a disorder of this body system, as is diabetes. Iodine deficiency affects one organ of this system, the thyroid, while HGH and oxytocin are released by this system's master gland, the pituitary. For the point, name this body system which regulates the function of other organs through hormones like melatonin and insulin.

ANSWER: **Endocrine** system

(15)   This composer evoked the sounds of late 17th-century music to celebrate the 200th anniversary of the title Scandinavian playwright in his *Holberg Suite*. This man wrote the movement "Ingrid's Lament" to coincide with the abduction of a milkmaid by trolls. To accompany a play by countryman Henrik Ibsen, this composer wrote pieces like "Morning Mood" and "In the Hall of the Mountain King." For the point, name this Norwegian composer of the *Peer Gynt* suite.

ANSWER: Edvard **Grieg** [[GREEG]]

(16)   This constant raised to the "i times theta" is equal to "i times sine theta plus cosine theta." This constant raised to the "i times pi" power is equal to negative one by a Swiss mathematician's identity. The derivative of this function to the x power is equal to this function to the x power. Jacob Bernoulli [[ber-NOO-lee]] discovered this number when studying interest compounding. This number is the base of the natural logarithm, or ln [[EL-EN]]. For the point, name this constant approximately equal to 2.718.

ANSWER: *__e__* (accept **Euler's** [[OY-lers]] number; accept **2.718** before mentioned)

(17)   The Oracle of Delphi instructed the founder of this city to follow a sacred cow and build a town where it sat down after it grew exhausted. An attempt to restore Polynices [[pah-lee-NAI-sees]] to this city's throne led seven champions led by Adrastus to conduct a failed war against Eteocles [[eh-TEE-oh-klees]]. For the point, name this city founded by Cadmus, home to the riddle-solving hero Oedipus.

ANSWER: **Thebes** [[THEEBS]] (or **Thiva**; or **Thebai**; be lenient on pronunciation)

(18)   Chinua Achebe [[SHIN-wah uh-SHEH-beh]] claimed this work ignored the artistic accomplishments of the Fang people. The International Society for the Suppression of Savages appears in this work which follows a journey to the Inner Station. Mr. Kurtz is surrounded by pilgrims in this novel and writes the message "Exterminate all the brutes!" This work begins on the *Nellie* with Charles Marlow. For the point, name this Joseph Conrad novel about the brutal rule of the Belgian Congo.

ANSWER: ***Heart of Darkness***

(19)   In a battle named for this region, Murad I led an early iteration of the Janissary corps and was defeated by Crown Prince Lazar. Students promoted the independence of this region during 1981 protests under the Hoxha [[HAH-juh]] government. Over half of the member states in the UN recognized this Muslim-majority state's declaration of independence in 2008. For the point, name this breakaway state from Serbia, which fought a namesake 1990s war which led to NATO intervention.

ANSWER: Republic of **Kosovo**

(20)   Kirchhoff's [[KEER-koffs]] form of this equation replaces two terms with conductivity and electric field and can be used to measure ion flow in a plasma. Joule's first law is obtained by substituting this equation into the power equation. This law can be derived graphically by plotting *I* vs. *V*. To apply this law to parallel circuits, the reciprocal of each resistor's value must be summed. For the point, name this law which states that voltage equals current times resistance.

ANSWER: **Ohm**'s law

(21)   In 2016, this man founded a tunnel construction company named The Boring Company. With the Canadian musician Grimes, this man is the father of a child named X Æ A-Xii [[X Ash A Twelve]]. In 2012, this man proposed the Hyperloop transportation system, and in response to his criticisms of COVID-19 testing, this man was labeled "Space Karen" on Twitter. Late in 2020, this man surpassed Jeff Bezos as the richest man in the world. For the point, name this founder of SpaceX and Tesla.

ANSWER: Elon **Musk**

(22)   Tankers along the Yangtze River operated by this company sank during the USS *Panay* Incident. A 19-part article published in *McClure's* which featured interviews with Henry H. Rogers, was written by Ida Tarbell and was named *The History of* [this company]. The likes of ExxonMobil and Chevron were created through the anti-monopoly case against this company. For the point, name this company which was co-founded by Henry Flagler and John D. Rockefeller.

ANSWER: **Standard Oil** Company of New Jersey

(23)   A poem by this author concludes, "The Rock cries out to us today, / You may stand upon me, / But do not hide your face." The speaker declares "I've got the children to tend / The clothes to mend" in this author's rhythmic poem, "Woman Work." During the inauguration of Bill Clinton, this woman read her poem "On the Pulse of Morning." For the point, name this African-American poet who wrote about her upbringing in Stamps, Arkansas in her book *I Know Why the Caged Bird Sings*.

ANSWER: Maya **Angelou**

(24)   The Dog Star Sirius is orbited by one of these bodies named Sirius B. The accumulation of excess matter on these bodies leads to Type 1a supernovae. The mass of these bodies has an upper bound at the Chandrasekhar limit, after which these objects overcome their electron degeneracy pressure. For the point, name these small, pale stellar remnants, which are less massive than neutron stars and black holes.

ANSWER: **White dwarf**s (prompt on "dwarf" or "star"; accept **Degenerate dwarf**)

(25)   A servant of this god, an army chief named Vishvaksena [[veesh-vahk-SEH-nah]] , was born with a conch shell and mace in hand. The chanting of "Sri Satyanarayana'' while making a fire sacrifice, or *puja*, accompanies the worship of this deity. A tortoise avatar of this god named Kurma holds the world on its back and was present during the churning of the ocean of milk. For the point, name this spouse of Lakshmi and member of the Trimurti, the "Preserver" in the Hindu faith.

ANSWER: **Vishnu**

(26)   The lower edge of this region is found at the "D double prime" layer. The highly viscous and ductile upper portion of this region is called the asthenosphere. Convection in this region is responsible for the movement of continental plates, and this region possesses a majority of the Earth's volume. For the point, name this partially liquid region of the Earth, which lies on top of the outer core and beneath the crust.

ANSWER: **Mantle**

(27)   Published in 1848, this work may have influenced some of the European revolutions of that year. This work describes one group as their own gravedigger and later describes the victory of the proletariat as "inevitable." This work ends with the call to action, "Working Men of the World, Unite." For the point, name this work which states "A spectre is haunting Europe," co-authored by Friedrich Engels and Karl Marx.

ANSWER: The ***Communist Manifesto**** (or ***Manifest der kommunistischen Partei***)

(28)   Operations in this field can be expressed using dot notation and Lagrange's notation, which uses the prime symbol. Fluxions [[FLUK-shuns]] were an early construct in this field, and approximations of an operation in this field can be done using Simpson's rule or a Riemann [[REE-mahn]] sum. The "fundamental theorem" of this field connects differentiation and integration. For the point, name this field which studies continuous change, developed by Isaac Newton and Gottfried Leibniz.

ANSWER: **Calculus** (accept Differential **calclulus**; accept Integral **calculus**)

(29)   This state had the largest KKK organization in the U.S. in 1922, but that declined dramatically after this state's Grand Dragon, D.C. Stephenson, was convicted of kidnapping and assault. Militia leader George Rogers Clark captured the city of Vincennes [[vin-SENS]] in this state during the Revolutionary War. William Henry Harrison defeated a confederacy of Native Americans led by Tecumseh in this state during the Battle of Tippecanoe. For the point, name this U.S. state on Lake Michigan, the home of Mike Pence.

ANSWER: **Indiana**

(30)   In a story by this author, the title object is resold to the Hawaiian Keawe [[kay-AH-vay]] to cure his leprosy in "The Bottle Imp." This author set a novel in the aftermath of the Jacobite rising in which Uncle Ebenezer attempts to kill David Balfour. A visit by Billy Bones in a novel by this author leads Squire Trelawney and Jim Hawkins to set sail for the title location. For the point, name this author of *Kidnapped* and *Treasure Island*.

ANSWER: Robert Louis **Stevenson**

Extra Question

(1)   An artist from this nation created *Squares with Concentric Circles* and *Upward*. The *The Apotheosis of War* series, was created by Vasily Vereshchagin [[veh-resh-CHAY-gin]] to criticize the acts of this nation's Imperial army. Ilya Repin [[REH-pin]], an artist from this nation, depicted exhausted day laborers in *Barge Haulers on the Volga*. For the point, name this home of painters Wassily [[vah-SEE-lee]] Kandinsky and Valentin Serov [[SEH-roff]].

ANSWER: **Russia** (accept **Russia**n Empire or Imperial **Russia**; or **Rossiya**; accept **Soviet Union**; accept **USSR**; accept **Union of Soviet Socialist Republics**)