

Brookwood Invitational Scholars Bowl XXVI: Brought to you by the letter *J'accuse*
Round 4

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Tossups

1. A government slogan in this country was, “To keep you is no benefit. To destroy you is no loss.” In this country, a man nicknamed “Comrade Duch” was promoted to head of the Santebal in 1975. An exiled government called GRUNK was formed after a 1970 coup in this country forced the prime minister to hide in Beijing. In this nation, Brother Number One came to power during Year Zero after overthrowing Prince Sihanouk. The US launched Operation Freedom Deal, a bombing campaign, against this nation under President Nixon. A genocide in this country was carried out in “killing fields.” For 10 points, name this country home to Angkor Wat and Pol Pot’s Khmer Rouge.

ANSWER: Kingdom of Cambodia [or Kampuchea]

2. A string quartet by this composer is based on a Matthias Claudius poem and is characterized by sudden dynamic changes from *fortissimo* to *pianissimo*. Another work by this composer represents a horse’s movement with running triplets, as a father and son are pursued by the title creature. This composer wrote a piece for piano and strings named for his own song “Die Forelle.” This composer of *Death and the Maiden* and *Der Erlkonig* is best-known for his eighth symphony, which was originally intended to have a third movement *Scherzo* only sketched before his death. For 10 points, name this composer of the *Trout Quintet* and the *Unfinished Symphony*.

ANSWER: Franz Schubert

3. *The Book of the Heavenly Cow* discusses a rebellion against this god. This god’s daughter stripped naked to cheer him up; he fed that daughter red beer, rather than blood, after changing his mind about destroying humanity. This god’s cult was centered at Heliopolis. He was poisoned by a snake to make him divulge his secret name. Khnum [CUH-NOOM] and Khepri were aspects of this god. This father of Bastet and Hathor was thought to be merely a creation of Ptah by Memphis; by that time, he had been syncretized with Atum. Apep attacked this god’s chariot every night. For 10 points, name this Egyptian sun god.

ANSWER: Ra [or Re; or Atum-Ra; or Amun-Ra]

4. A constant representing this phenomenon equals 64 over the Reynolds number for laminar flow. The arctangent of a constant associated with this phenomenon gives the angle of repose. This phenomenon results in the only net torque through the center of mass on a ball rolling down a hill. It is responsible for the buildup of static charges in the triboelectric effect. Most damping is caused by a form of this phenomenon. Its magnitude is proportional to the normal force with a coefficient symbolized mu. It comes in static and kinetic forms, and its magnitude can be reduced with lubricants. For 10 points, name this force which dissipates heat when two objects are rubbed against each other.

ANSWER: friction [prompt on “drag”; prompt on “air resistance”]

5. In one play set in this place, the deaths of Polyxena and Polydorus cause the title queen to go mad. In a poem set here, two men exchange a crimson sash and a silver sword. Pandarus convinces a prince from this place to marry the daughter of Calchas in a Geoffrey Chaucer poem. The corpse of a hero from this city is drawn behind a chariot for twelve days. Euripides wrote about the “women” of this place, which is the setting for *Troilus and Cressida*. The theft of Briseis outside this city prompts Patroclus to wear his best friend’s armor. King Priam attempts a truce in this location before Achilles is killed. For 10 points, name this city, the setting of the *Iliad*.

ANSWER: Troy

6. One speech delivered by this man at Grosse Pointe High School mentions that Carlisle was “right” because of the “arc of the moral universe” that “bends towards justice.” This author of “The Other America” proclaimed that he would “take his mind to Mount Olympus” in his speech, “I’ve Been to the Mountaintop.” Another of his speeches ends with the spiritual “Thank God Almighty, we are free at last!” and hopes that people will be judged “not by the color of their skin, but by the content of their character.” For 10 points, name this African-American civil rights leader who gave the “I Have a Dream” speech.

ANSWER: Martin Luther King, Jr. [or MLK Jr.]

7. This is the largest homonuclear diatomic molecule with a pi-u molecular orbital at a lower energy than a sigma-g orbital. Along with water, carbon dioxide, and sulfur dioxide, it has a zero enthalpy of combustion. Old airbags produced this compound from sodium azide. It is isoelectronic to carbon monoxide. An iron catalyst is used to break down this compound at very high pressures in the Haber process because it is so unreactive. In nature, the conversion of it to ammonia is called “fixation.” This compound makes up about 80% of the atmosphere. For 10 points, name this diatomic gas consisting of element number 7.

ANSWER: nitrogen gas [or N₂]

8. The speaker of one of this author’s poems commands the reader to “Take this kiss upon the brow!” The last stanza of another of this man’s poems begins “For the moon never beams without bringing me dreams.” This author of “Dream Within a Dream” wrote about a “sort of runic rhyme” in a poem about the “tintinnabulation that so musically wells” from the “moaning and groaning” of the title objects. He wrote of a maiden located at the “kingdom by the sea” in one poem, and described a “rapping at [his] chamber door” in a work taking place “Once upon a midnight Dreary.” For 10 points, name this American poet of “Annabel Lee” and “The Raven.”

ANSWER: Edgar Allan Poe

9. An incident allegedly involving one of these items was caused by Lorenzo Sumulong’s remarks at the 902nd Plenary Meeting. In September 2012, a collection of these items was destroyed by termites because its owner had been in exile for 26 years in Hawaii. Thousands of these objects are at the center of the Holocaust memorial in Washington DC. An extravagant collection of these items was owned by Imelda Marcos. At a 2008 press conference, Muntadhar al-Zaidi threw two of them at George W. Bush. For 10 points, name this type of item allegedly used by Nikita Khrushchev at a UN meeting to hit a desk.

ANSWER: shoes [do not accept “Richard Nixon’s face”]

10. In a painting located in this building, the title figure is depicted removing his sandals and fighting two shepherdesses. The artist of its most famous panel may have included the outline of a brain beneath the work. At one point, some of the paintings in this building were covered by Daniele da Volterra, earning him the moniker “Il Braghettone”. This building, home to *The Trials of Moses*, includes a depiction of St. Bartholomew holding his flayed skin. A fresco depicting God reaching out to Adam is part of this building’s ceiling. For 10 points, name this home of Michelangelo’s *Last Judgment*, a large chapel in the Apostolic Palace of the Vatican City.

ANSWER: Sistine Chapel [or Cappella Sistina or Sacellum Sixtinum]

11. Don Anderson proposed that these objects move due to calcium carbonate deposited by living organisms. Passive and active margins are found between these objects. A restatement of Archimedes’ principle, isostasy, keeps these objects in gravitational equilibrium. Gravity causes them to move under “slab pull”, while convection currents cause them to “roll-back” to form a back-arc. The existence of ophiolites in the Himalayas was proof of their existence. These objects can meet at convergent, divergent, or transform boundaries and can sink into the mantle at subduction zones. For 10 points, name these giant pieces of Earth’s crust in a namesake geologic theory.

ANSWER: tectonic plates

12. One character in this novel describes seeing his dead mother on New Year’s Eve. This book’s protagonist says most jazz performers have “it” during a concert by George Shearing, and enjoys the company of Victor while completing a divorce from Inez. This novel’s narrator spends time with Terry during his first trip to San Francisco. The protagonist of this work is scolded by Old Bull Lee for his sporadic relationships with Camille and Marylou and often spends nights talking poetry with Carlo Marx. For 10 points, name this Beat novel detailing the adventures of Sal Paradise and Dean Moriarty, written by Jack Kerouac.

ANSWER: On the Road

13. This musician performed “Festival Junction” and other pieces alongside Paul Gonsalves and Johnny Hodges at the 1956 Newport Jazz Festival. One song by this musician tells how the singer always gets the title feeling, which he attributes to a color, ever since his “baby said goodbye.” One of this musician’s pieces was inspired by a trip to his collaborator’s house in New York. This man’s band recorded a version of the song “Caravan.” This composer of “Mood Indigo” frequently wrote his pieces with Billy Strayhorn, including his most famous piece, and this man’s band played at the Cotton Club. For 10 points, name this pianist and bandleader who wrote “Take the ‘A’ Train.”

ANSWER: Edward “Duke” Ellington

14. George H.W. Bush made a notorious 1988 campaign speech at a factory for these objects. Martin Sheridan quipped that this item “dips before no earthly king.” Barbara Fritchie holds up one of these items in front of Stonewall Jackson in a poem by John Whittier. The court case *Texas v. Johnson* permitted symbolic speech with these objects, which were painted in encaustic works by Jasper Johns. George C. Scott, while portraying George Patton, delivers a speech to the Third Army in front of a giant one of these objects. For 10 points, name this item which was allegedly first sewn by Betsy Ross.

ANSWER: American flag [or US Flag or Star-Spangled Banner or Union Flag or Stars and Stripes; prompt on “flag”]

15. A politician from this state introduced a bill barring the public sale of F-14 airplane parts and held “Congress on Your Corner” meetings with constituents. Another elected official from this state was attacked in the Munnell memo and is currently being sued by the Justice Department for racial profiling. Ron Barber won a special election in this state, and Joe Arpaio is a sheriff in this state’s Maricopa County. On January 8th, 2011, Jared Lee Loughner shot a Congresswoman from this state. For 10 points, name this US State, the home of Gabby Giffords, where Jan Brewer signed SB 1070, a law requiring aliens to carry proof of citizenship at all times, in Phoenix.

ANSWER: Arizona

16. Foreign Affairs Minister Anna Lindh was killed in this city in September 2003. This city was once known as Gamla stan. Members of the Sture party in this city were taken into this city’s cathedral, the Storkyrkan (STORE-KEER-KAN), paraded into the Stortorget, and executed. After seeing a movie with his wife, Prime Minister Olof Palme was gunned down in this city in 1986. A massacre led by Christian II is now called this city’s “bloodbath.” A bank holdup in this city caused Kristin Enmark to sympathize with her captor, giving rise to this city’s namesake “syndrome.” For 10 points, name this crime-infested Scandinavian city, the capital of Sweden.

ANSWER: Stockholm, Sweden [or Gamla stan before mention]

17. In one work, this philosopher praised the five virtues of being merciful, faithful, humane, upright, and religious. His name graces the second of the three psychological disorders known as the Dark Triad. This author praised Hannibal’s sternness while dismissing Scipio’s forbearance, mocking a genre intending to “mirror” the title character. In order to avoid both snares and wolves, this philosopher instructed his audience to be both a lion and a fox in a work often paired with his analysis of republics called *Discourses on Livy*. For 10 points, name this author who said “It is better to be feared than loved” in an invocation to Lorenzo d’Medici, *The Prince*.

ANSWER: Niccolo Machiavelli

18. The protagonist of this work is mistaken for Nathoo and adopted by Messua and her husband. This work and its same-named “Second” version were written while the author lived in Vermont. Each episode in this collection is followed by a poem or song, such as “Darzee’s Chant” and “The Law for the Wolves.” In order to save a boy named Teddy, a character in this collection kills Nag and Nagaina, two cobras. “Toomai of the Elephants” and “Kaa’s Hunting” are two stories in this collection. For 10 points, name this collection of stories also including “Rikki-Tikki-Tavi” and several tales about Mowgli, written by Rudyard Kipling.

ANSWER: *The Jungle Book* [or *The Second Jungle Book*; ask for less specificity for answers of Rikki-Tikki-Tavi” and “Tyger, Tyger”]

19. The main treatment for Prader-Willi syndrome is injecting this protein. The secretagogue receptor for this protein binds ghrelin, which activately stimulates secretion of it. An “insulin-like” compound is secreted by the liver in response to activation by this protein. This hormone is secreted by somatotrophic cells in the absence of somatostatin. A deficiency in this protein can be diagnosed by measuring the size of patient’s hands on an X-ray, and is common in Turner syndrome patients. Secreted by the anterior pituitary, this hormone is produced in excess by patients suffering from acromegaly. For 10 points, name this hormone which promotes people getting taller.

ANSWER: human growth hormone [or HGH]

20. TWO ANSWERS REQUIRED. The border between these two nations joins the cities of Dajabon (DA-HA-BONE) and Ouanaminthe (OOH-AWN-A-MINTH). The Cul-de-Sac Depression and Artibonite River are found in these two countries. The Pico Duarte is found in the larger of these countries, and they share a mountain range called either the Cordillera Central or the Massif du Nord. 20,000 people were killed in October 1937 during the Parsley Massacre, on the border between these two countries. In 2010, an earthquake striking these two countries led to an outbreak of cholera, as the smaller of these nations is the poorest in the Western Hemisphere. For 10 points, name these nations which share the island of Hispaniola.

ANSWER: Republic of Haiti and the Dominican Republic [accept DR or Republica Dominicana for the Dominican Republic; accept answers in either order]

The Round Is Over. Only Read the Tiebreaker if Needed

21. This great-uncle of Ralph Vaughan Williams was himself a grandson of Josiah Wedgwood. In Huxley's *Brave New World*, the photographer who drives John the Savage to suicide is named for Napoleon Bonaparte and *this man*: coincidentally, Huxley's father was known as this man's "bulldog." This man competed with Alfred Russel Wallace to publish his results. The only city in Australia attacked by Japan during WW2 is named for this man; that capital of the Northern Territory was named when the *Beagle* sailed by it. For 10 points, name this biologist who studied the beaks of finches, leading him to theorize evolution by natural selection.

ANSWER: Charles Darwin

Round 4 Bonuses

1. This rhyme scheme usually ends with a rhyming couplet. For 10 points each:

[10] Name this scheme which uses three-line stanzas in an interlocking ABA-BCB-CDC rhyme.

ANSWER: terza rima

[10] The most well-known use of terza rima is in this three-part epic poem by Dante Alighieri about the poet's journey through the Inferno, Purgatory, and Paradise.

ANSWER: the Divine Comedy [or Divine Commedia]

[10] Another poem utilizing terza rima is this work in five cantos written in response to the Peterloo Massacre. This poem's speaker asks to be the "trumpet of a prophecy" from the title figure, who is a "breath of Autumn's being."

ANSWER: "Ode to the West Wind" [by Percy Bysshe Shelley]

2. In this bonus about oil spills, I will not make any crude jokes. For 10 points each:

[10] *Ixtoc I* spilled three million barrels of oil into this gulf in 1979. It got a bit more oily when BP's *Deepwater Horizon* started spewing petroleum in April 2010.

ANSWER: Gulf of Mexico

[10] *Exxon Valdez* spilled at least forty million liters of oil in 1989 into this sound off the coast of Alaska.

ANSWER: Prince William Sound

[10] Oil spills are a major reason for controversy over this wildlife refuge in northeastern Alaska. Drilling in the 1002 area of this region was an issue at the center of the 2008 presidential election.

ANSWER: ANWR [pr. "Anwar"; or Arctic National Wildlife Refuge]

3. This institution had its foundations in a series of published beliefs called the Thirty-Nine Articles. For 10 points each:

[10] Name this institution led by Thomas Cranmer, the author of the *Book of Common Prayer*. The monarch who founded it was excommunicated in 1533.

ANSWER: Church of England [or Anglican Church]

[10] This Tudor Monarch's inability to annul his marriage with Catherine of Aragon led him to found the Anglican Church. He had two of his wives beheaded because they couldn't bear a male heir.

ANSWER: Henry VIII

[10] This 1534 act passed by Henry VIII made the King of England the absolute head of the Anglican Church. After it was repealed by his daughter Mary, Elizabeth I had it reinstituted in 1559.

ANSWER: Act of Supremacy

4. These figures were painted holding arquebuses by members of the Cuzco school. For 10 points each:

[10] Name these heavenly figures. One of them named Gabriel tells Mary she will bear Christ in depictions of the Annunciation.

ANSWER: angel [accept archangel]

[10] An angel in a blue robe fights Jacob in front of women in bonnets in this artist's *Vision After the Sermon*. He is known for his depictions of Tahitian natives.

ANSWER: Paul Gauguin [pr. GO-GAN]

[10] In this series of four paintings by Thomas Cole, an angel follows a man on a boat from his childhood, youth, manhood, and old age.

ANSWER: *The Voyage of Life*

5. *Note to moderator: Please do not spell any of the words in this bonus for the teams.*

These substances make up the cell membrane in a bilayer according to the fluid mosaic model. For 10 points each:

[10] Name these substances which consist of a polar head and a nonpolar tail.

ANSWER: phospholipids [prompt on "lipids"]

[10] Substances that can't get through the lipid bilayer because they're too big can enter through a vesicle in this form of active transport.

ANSWER: endocytosis [prompt on "phagocytosis"]

[10] Special carrier proteins and glycoproteins called transferrins are required for this cation to enter the cell. Siderophores chelate this metallic cation, which is bound in cytochrome C.

ANSWER: iron 2+ [or iron 3+; or Fe2+; or Fe3+]

6. This man's mother managed to save a strand of wood at his birth so that he couldn't die unless it was burnt, but she got angry at him and burned it up. For 10 points each:

[10] Name this hero who launched the Calydonian boar hunt and fell for Atalanta.

ANSWER: **Meleager**

[10] The Calydonian boar was sent by this goddess of virginity and the hunt after King Oeneus forgot to make a sacrifice to her. Atalanta was a favorite of this goddess, Apollo's twin sister.

ANSWER: **Artemis**

[10] Meleager's sister was Deianira, who's best-known for killing Heracles with a shirt stained with the blood of this centaur.

ANSWER: **Nessus**

7. Answer the following about composers and celli, for 10 points each:

[10] This composer wrote a *Cello Concerto in E minor*, though he is better known for his *Enigma Variations* and *Pomp and Circumstance* marches.

ANSWER: Edward **Elgar**

[10] This man became a composer after his early career as a cello virtuoso. His operatic works include *The Tales of Hoffmann* and *Orpheus in the Underworld*.

ANSWER: Jacques **Offenbach**

[10] This composer wrote 12 concerti for the cello, as he too played the instrument. This Italian composer is best-known for a "Minuet," the third movement in his *String Quartet in E Major*.

ANSWER: Luigi **Boccherini**

8. In September 2012, users of this currency signed a Stability Mechanism to help alleviate a sovereign debt crisis. For 10 points each:

[10] Name this currency used in nations like Germany and France.

ANSWER: the **euro**

[10] Standing in the way of the euro's complete collapse is the Troika: the European Commission, the European Central Bank, and this agency. It has been led by Christine Lagarde since Dominique Strauss-Kahn resigned.

ANSWER: **International Monetary Fund** [or the **IMF**]

[10] The Troika forced creditors of Greece to accept a huge cut in their debt holdings in 2011, an action often described by this word. This term refers to the reduction in the monetary value of a security assessed by its holder.

ANSWER: a "**haircut**"

9. Answer the following about angular momentum--in astronomy. For 10 points each:

[10] According to the no-hair theorem, these objects are defined only by mass, charge, and angular momentum. Not even light can escape the gravitational pull of these objects.

ANSWER: **black holes**

[10] According to this law, a restatement of angular momentum's conservation, equal areas are swept out by planetary orbits in equal times.

ANSWER: **Kepler**'s **Second** Law [prompt on partial answer]

[10] A proof of Kepler's Second Law was put forth in the first book of this text, the second edition of which included the phrase *Hypotheses non fingo*. This work introduced differentials called "fluxions."

ANSWER: *Philosophiae Naturalis Principia Mathematica* [pr. PRIN-KIP-EE-A, though accept PRIN-SIP-EE-A as well; accept the **Principia**; or Isaac Newton's **Principia**; however, do not accept anything mentioning Bertrand Russell or Alfred North Whitehead]

10. When one of these objects is filled with curds, the protagonist believes his brain has started melting. For 10 points each:

[10] Name these objects. A soap bowl belonging to a barber is mistaken to be one of these objects once owned by Mambrino.

ANSWER: helmets

[10] These other objects also victimize the protagonist by breaking his lance when he charges at them. The protagonist notably confuses these objects with giants.

ANSWER: the windmills in *Don Quixote* [don't read the entire answerline if it's not given as part of the answer]

[10] This delusional "errant knight" smites the innocent barber for his bowl and charges the windmills in the novel he appears in. This Rocinante-riding character is the most famous creation of Miguel de Cervantes.

ANSWER: Don Quixote de la Mancha [accept Alonso Quixano]

11. For 10 points each, name these things which led to the War of 1812:

[10] This British practice of combatting shortages in its own armed forces forced unwilling American sailors to join the British navy.

ANSWER: impressment [or "press gang"]

[10] This idiotic act passed by Thomas Jefferson in 1807 stopped all trade to and from Britain to show that the US could sustain itself. It couldn't.

ANSWER: Embargo Act

[10] Tension between the US and Britain reached its peak in June 1807 when an American frigate and a British warship fought off the coast of Norfolk. All or nothing, name both the US and British ships involved in that "affair".

ANSWER: USS Chesapeake and HMS Leopard

12. Air travel was frequently in the news in the summer of 2013. For 10 points each:

[10] Layoffs in the FAA significantly slowed down air travel in April 2013, as a result of these across-the-board, automatic budget cuts which took effect in March after Congress failed to avoid the fiscal cliff.

ANSWER: the budget sequester [or the sequestration]

[10] News agencies were shocked when this South Korean company's Flight 214 suspiciously crashed on a cross-Pacific flight landing in San Francisco.

ANSWER: Asiana Airlines

[10] This nation's president was stranded when France and Portugal refused to let his plane land, suspecting Edward Snowden to be smuggled aboard. This nation, Venezuela, and Nicaragua have offered Snowden asylum.

ANSWER: Plurinational State of Bolivia

13. After she is killed, her murderer claims that, "She would of been a good woman if it had been somebody there to shoot her every minute of her life." For 10 points each:

[10] Name this character who "didn't want to go to Florida" according to the first line of the story.

ANSWER: the Grandmother

[10] The Grandmother is shot by the Misfit in this short story, which titled a 1955 collection.

ANSWER: "A Good Man is Hard to Find"

[10] "A Good Man is Hard to Find" was written by this Southern Gothic author who included Christian themes in many of her works. She died of lupus.

ANSWER: Flannery O'Connor

14. For 10 points each, answer these questions about the use of fire by the first humans:

[10] In this technique, trees were cut down and fire was used to clear large forested areas of vegetation and weeds. It provides soil with fertility for a few years before the weeds grow back.

ANSWER: slash-and-burn

[10] These people, who lived about 40,000 years ago in the Ice Age, used fire to trap wild animals. Spread throughout Africa, Asia, and Europe, they were the first to have the same body and skull shapes as modern humans.

ANSWER: Cro-Magnons

[10] Clay shards in the Olorgesailie region of this African country is proof *homo erectus* could control fire. In 1952, a majority ethnic group in this country rebelled with the help of the Embu and Meru groups.

ANSWER: Republic of Kenya

15. The chemist who performed this experiment famously compared it to a piece of tissue paper deflecting an artillery shell. For 10 points each:

[10] Name this experiment, in which alpha particles were deflected into a ring of zinc sulfide, leading to the discovery of the nucleus.

ANSWER: Rutherford's **gold foil** experiment

[10] The gold foil experiment used alpha particles, which are essentially the nuclei of this element, consisting of two protons and two neutrons.

ANSWER: **helium** [or **He**]

[10] George Gamow theorized that alpha decay took place through this mechanism. Electrons undergo this phenomenon in the presence of a vacuum due to an external voltage in a type of scanning microscope.

ANSWER: quantum **tunneling**

16. Crossing large bodies of water--not a problem if you're a religious icon! For 10 points each:

[10] This prophet led the Israelites out of Egypt by raising his staff over the waters, which parted, but then collapsed when the Egyptians tried to follow.

ANSWER: **Moses** [or **Moshe**]

[10] Unfortunately, Moses wasn't able to cross the Jordan River because, at Meribah, he did not talk to one of these objects, as God insisted. Instead, he hit it twice with his staff in order to summon water.

ANSWER: a **rock** [or a **stone**; or synonyms]

[10] In 344 days, the Jaredites were able to cross the Atlantic Ocean on barges. That story is recounted in the Book of Ether, which is a part of this larger holy book.

ANSWER: The **Book of Mormon**

17. One of this man's plays takes its title from the first line of the *Aeneid*, and another of his works was adapted into *My Fair Lady*. For 10 points each:

[10] Name this playwright of *Arms and the Man* and *Pygmalion*.

ANSWER: George Bernard **Shaw**

[10] In *Pygmalion*, this Cockney girl is coached by Professor Henry Higgins into becoming a proper lady. This character gets married to Freddy Eynsford-Hill at the play's end.

ANSWER: **Eliza Doolittle** [accept either underlined part]

[10] In the third act of Shaw's play *Man and Superman*, the actor who plays Jack Tanner doubles as *this* title character, as he debates philosophy with the Devil.

ANSWER: **Don Juan** [accept "**Don Juan in Hell**"]

18. Practitioners of this art form include the creator of the "Death of Street Art" mural. For 10 points each:

[10] Name this often maligned art form commonly found on street walls. Other artists who used this medium include Sever and the Haitian-born Jean-Michel Basquiat [BAS-KEE-UGHT].

ANSWER: **graffiti**

[10] This English-born graffiti artist, who is only known by his pseudonym, directed the street art film *Exit Through the Gift Shop*. His work in Bristol includes an image of a naked man hanging from a window.

ANSWER: **Banksy**

[10] Banksy used graffiti to decorate portable toilets in order to create a copy of this landmark. This landmark, largely comprised of menhirs, is located on Salisbury Plain.

ANSWER: **Stonehenge**

19. For 10 points each, answer these questions about British Bengal:

[10] In 1756, the Nawab of Bengal detained British prisoners inside a small building and caused their deaths by suffocation. That deadly incident became known by this name.

ANSWER: **Black Hole of Calcutta** [or **Black Hole of Kolkata**]

[10] A year later, the Nawab of Bengal was defeated by Robert Clive, who was being employed by this British joint-stock company. After the Battle of Plassey, its dominance in India was ensured.

ANSWER: British **East India Company** [or **EIC**]

[10] British Bengal also spelled the rise of the rival bhadralok [BODE-RA-LOOK] and ashraf classes, the latter of which was comprised by these people. These people were exempt from the jizya tax.

ANSWER: **Muslims**

20. This phenomenon resulted in dark and light fringes on the far field due to diffracting wavefronts in the double slit experiment. For 10 points each:

[10] Name this phenomenon in which waves interact either constructively or destructively.

ANSWER: interference

[10] Interference will be destructive if the path difference between two waves divided by the wavelength is this kind of a number.

ANSWER: half-integers [or half of an integer; accept “half of a whole number” or “half of a natural number” in place of “integer”]

[10] Interference is vital to a technique used to measure crystalline structures, using *this* form of radiation. Bragg’s Law is used for the diffraction of this form of electromagnetic radiation.

ANSWER: X-rays

The Round is Now Over.

21. At this novel’s beginning, Bill is eaten by Kiche, One-Eye, and the rest of the pack. For 10 points each:

[10] Name this novel whose protagonist is tamed by Weedon Scott and taken back to California, where he kills Jim Hall.

ANSWER: *White Fang*

[10] *White Fang* was written by this author, who detailed the opposite transformation, of a dog into a wolf, in *The Call of the Wild*.

ANSWER: Jack London

[10] In *The Call of the Wild*, Buck gets into a rivalry with this dog. When Buck defeats him, this dog is eaten by the rest of the huskies, and Buck becomes leader of the pack.

ANSWER: Spitz