

Bulldog High School Academic Tournament 2017 (XXVI): Revenge of the BH-SAT

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Packet 9 Tossups

1. **A goddess who personifies one of these places is the simultaneous consort of every member of the Trimurti. The Manimahesh and Manasarovar are two examples of these places holy to Shiva. Participants in the Kumbh Mela gather around one of these places, and idols are thrown at these places to purify them on Ganesh Chaturthi. In Varanasi, one of these places is surrounded by (*) steps called *ghats*.** Stepping into a particular one of these features is considered the most purifying act in Hinduism. For 10 points, name these natural features that include the the Brahmaputra and Ganges.

ANSWER: rivers [accept lakes or any other body of water; accept specific examples of either] <AF>

2. **One of this composer's operas is often performed without its "Fontainebleau" first act, and is based on a Schiller play. The title character swears friendship to Rodrigo in this composer's duet "Dio, che nell'alma infodere"** ["DEE-oh, kay nell-AHL-mah een-FOH-day-ray"]. **A cabaletta by this composer is twice interrupted by reprises of his aria "Un di, felice, eterea"** ["OON dee, fay-LEE-chay, eh-TAY-ray-ah"]. **This composer of *Don Carlos* also wrote the drinking song (*) "Libiamo ne'lieti calici"** ["leeb-YAH-mo nayl-YAY-tee cah-LEE-chee"]. "Sempre libera" is sung by a courtesan wooed by Alfredo in this man's opera about the dying courtesan Violetta. He also wrote an opera about the Egyptian commander Radamès's love for an Ethiopian princess. For 10 points, name this Italian opera composer of *La Traviata* and *Aida*.

ANSWER: Giuseppe (Fortunino Francesco) Verdi <JR>

3. **A literary "Renaissance" in this city included poets like Jack Spicer and Kenneth Rexroth. It was the site of a 1955 poetry reading at Gallery Six. While living in this city, a poet wrote "I Am Waiting," "In Goya's greatest scenes we seem to see," and the other poems in *A Coney Island of the Mind*. This city is home to the City (*) Lights Bookstore founded by Lawrence Ferlinghetti. It was the site of the first performance of a poem including lines like "Moloch," "I'm with you in Rockland," and "I saw the best minds of my generation..." Allen Ginsberg wrote "Howl" in this city. For 10 points, name this center of the Beat Generation and likely setting of "A Supermarket In California."**

ANSWER: San Francisco, California [accept Berkeley, California; accept S.F. or San Fran] <JR>

4. **A film about this organization opens with a girl counting her steps "one, prime, prime, four, prime...." In that film, the protagonist's name is repeatedly taken off reports by this organization's employee Paul Stafford. Another film about this organization depicts an explosion that creates a "main bus B undervolt," and shows the making of an ad hoc (*) C-O-2 filter. Dorothy Vaughan worked as an unpaid supervisor for this organization, and Katherine Johnson did calculations for it. In a Ron Howard film about this agency, Tom Hanks plays Jim Lovell saying "Houston, we have a problem." For 10 points, name this government agency depicted in *Hidden Figures* and *Apollo 13*.**

ANSWER: NASA [or National Aeronautics and Space Administration] <JR>

5. This practice was often conducted illegally using images of the Mass of St. Gregory. This practice was attacked in a document that repeats the phrase “Christians are to be taught....” This practice was partially justified by the inexhaustible “Treasury of Merit.” A couplet about this practice rhymes the words “rings” and “springs.” This practice was one of the main ways of (*) financing the rebuilding of St. Peter’s Basilica. Johann Tetzel’s abuse of this practice was attacked in the *Ninety-five Theses* of Martin Luther. For 10 points, name this practice of trading money for reduced time in purgatory.

ANSWER: selling indulgences [be lenient and accept any answer involving giving out indulgences] <JR>

6. This interaction is divided into Type 1 and Type 2 classes based on whether a key property of these relationships is linear or saturating. The “Three Sisters” farming technique uses this kind of interaction between three species. Mullerian, but not Batesian, mimicry is always this type of interaction. (*) Mycorrhizae and plant roots have this kind of this interaction, as do plants and the insects that pollinate them while gathering nectar. This interaction contrasted with commensalism and parasitism. For 10 points, name this kind of symbiosis in which both organisms benefit.

ANSWER: mutualism [accept word forms; prompt on symbiosis] <AF>

7. At the end of a 1703 play, this action is performed at a tree trunk that is growing both a pine and a palm, by Ohatsu and Tokubei. This action is performed at *Amijima* and at *Sonezaki* in two *bunraku* plays by Chikamatsu. In Act I of another play, the main character shows his willingness to perform this action with a song about the “Not-I” bird, after being pressured by the (*) Praise Singer. Olunde performs this action in place of his father after Simon Pilkings tries to prevent Elesin from doing it. For 10 points, name this action that must be performed by the king’s horseman after the king dies, in a play by Wole Soyinka.

ANSWER: committing suicide [prompt on dying or similar answers; accept more specific answers like love suicides, ritual suicides, strangling themselves, etc.] <JR>

8. This is the heaviest element in the clay mineral kaolinite. Along with oxygen, calcium, and aluminum, it’s the major component of Portland cement. Chert is rich in this element, which it probably gets from the spicules of sponges. This element, which is a solid at STP, is found in every entry on Bowen’s reaction series. Rhyolite and other (*) felsic rocks have much more of this element than basalt and other mafic rocks. This second-most abundant element in the Earth’s crust forms a tetrahedron with four oxygens in beryl and mica. For 10 points, name this semimetal, a core element of minerals like feldspar and quartz.

ANSWER: silicon <JR>

9. Rulers of this state were depicted as assemblages of fruit and veg and in other strange fashions, since they were the main patrons of Giuseppe Arcimboldo. This state forced the Treaty of Karlowitz after its victory in the Battle of Zenta over the Ottomans. Two regents from this state supposedly (*) fell into a dung heap in 1618. Under Leopold I, this state was led to many military victories by Eugene of Savoy. This empire’s army was led by Pappenheim, Tilly, Wallenstein, and other Catholics during the Thirty Years’ War. For 10 points, name this empire that included modern Germany, and which was ruled by Charles V.

ANSWER: Holy Roman Empire [do **not** accept or prompt on “Roman Empire”] <JR>

10. In Baroque music from this country, eighth notes were often “swung” with a long-short rhythm. A slower section in dotted rhythms is followed by a faster fugue in a type of opera overture named for this country. Bach wrote two sets of keyboard suites nicknamed for England and for this country. A composer from this country included a “Toccata,” (*) “Rigaudon,” and “Forlane” in a piece named for the “Tomb” of another composer from this country. That composer from this country wrote a repeating two-part tune over a snare drum ostinato in his *Boléro*. For 10 points, name this home country of Maurice Ravel and François Couperin.

ANSWER: France <JR>

11. A “tax” on this quantity is indirectly imposed by seigniorage. This quantity will always increase if another quantity falls below the NAIRU. Before he was nominated as Chairman of the Fed, Paul Volcker promised Jimmy Carter that he would decrease this quantity. This quantity is inversely related to the (*) unemployment rate by the Phillips curve. A major economic problem of the 1970s was named for a combined rise of this quantity and stagnation. This quantity accounts for the difference between “nominal” and “real” quantities. It’s measured using the CPI, or consumer price index. For 10 points, name this measures of how quickly money is losing its value.
ANSWER: inflation rate <BY>

12. A lawyer in this novel washes his hands obsessively to keep his hands clean from criminal activity, making him smell like soap. In the revised ending of this novel, the protagonist holds hands with a widow in a garden. That garden in this novel is located in the ruins of Satis House, which contained many clocks all stopped at the exact same time. At the beginning of this novel, the protagonist helps (*) free a man who later fights Compeyson after having relocated to Australia. The protagonist of this novel loves Miss Havisham’s ward Estella. Abel Magwitch becomes the benefactor of Pip in—for 10 points—what novel by Charles Dickens?
ANSWER: Great Expectations <MK>

13. The van’t Hoff factor is often lower than expected due to the “pairing” or “association” of these species. Water is often softened by exchanging these species using a namesake resin. Adding this kind of species decreases in the solubility of a solid in an application of Le Châtelier’s principle named for a (*) “common” one of them. Alkali metals require the least energy to be turned into one of these species. Dissociation splits salts into these species, which are the main constituents of plasmas. For 10 points, name these atoms or molecules with nonzero net charge.
ANSWER: ions [accept first ionization energy; accept common ion effect; accept ion exchange resin] <AF/JR>

14. A war in this country was where the leader of a coup attempt in the Seychelles, Mike Hoare, first gained prominence. Many nationalist leaders in this modern country were part of the *évolué* middle class. An Adam Hochschild book titled for a king’s ghost documents crimes in this country’s colonial predecessor, which was also the subject of the (*) Casement Report. In 1960, this country’s first prime minister, Patrice Lumumba, was shot in its breakaway region of Katanga. In 1997, this country changed its name after Laurent Kabila ousted dictator Mobutu Sese Seko. Belgium once colonized—for 10 points—what large Central African country with capital Kinshasa?
ANSWER: Democratic Republic of the Congo [or DRC; or Congo-Kinshasa; accept Zaire; accept Congo Free State; prompt on just Congo; do not accept or prompt on “Republic of the Congo”] (The Hochschild book is *King Leopold’s Ghost*.) <MK/JR>

15. In the last act of a realist 1892 play in this language, the home of an industrialist is sacked by a mob of workers that features no real main character. In Act 1 of another play in this language, a man takes to the Bohemian Forest after being disinherited due to slander by his brother. That play in this language ends after Amalia is murdered by Karl Moor. It was used to write *The* (*) *Weavers*, as well as many works from a literary movement whose name in this language means “Storm and Stress.” This language was used to write *The Robbers* and other *Sturm und Drang* works. For 10 points, name this language of playwrights like Gerhart Hauptmann and Friedrich Schiller.
ANSWER: German [or Deutsch] <LL>

16. This man was depicted with his genitals exposed in the painting *The Spear*. This man's financial advisor, Schabir Shaik, was charged with fraud in 2005. Throughout a trial, this man sang the song "Bring me my machine gun" with his supporters. This man has attracted controversy for his close dealings with mining and media companies run by the Gupta family. During a 2005 (*) rape trial, this man claimed he took a shower to reduce his chances of contracting AIDS. In April 2016, this successor of Thabo Mbeki was asked to resign after he was caught using public money to upgrade his private estate, Nkandla. For 10 points, name this current president of South Africa.

ANSWER: Jacob (Gedleyihlekisa) Zuma <MK>

17. The Klein–Gordon equation generalizes the partial differential equation named for these things, which relates a function's second partial derivatives with respect to time and position. Solitons are examples of these things that move with constant velocity without broadening. In matter, a characteristic property of these things was calculated as (*) Planck's constant over momentum by Louis de Broglie. When two of these things with similar frequencies overlap, they exhibit beats. Those that do not transfer energy and have fixed nodes of zero amplitude are called "standing." Young's double-slit experiment showed that light acts as both a particle and—for 10 points—what type of time-varying oscillation?

ANSWER: waves [accept more specific types of waves, such as light waves, sound waves, or water waves; accept wave packets] <SE>

18. One of this man's sons was brought back from the dead by Polyeidon with an herb he saw a snake use to resurrect its partner. That son of this man had drowned in a jar of honey. This man took one of his most famous actions after his son Androgeos was murdered for being too good at sports. This man, like his brother (*) Rhadamanthys, became a judge of the dead, and one hero abandoned his daughter on Naxos. That hero arrived from Athens with fourteen sacrificial victims for the child this king's wife Pasiphaë had with a white bull. For 10 points, name this king of Crete and namesake of a labyrinth-dwelling monster slain by Theseus.

ANSWER: Minos (The monster is the Minotaur.) <MK>

19. During one of these events, Attorney General Richard Olney had the Federal government issue writs of injunction. John Mitchell led one of these events in 1902 that prompted a commission appointed by Teddy Roosevelt. One of these events led to an assassination plot by Emma Goldman and Alexander Berkman. One of these events began in Martinsburg in July (*) 1877. Henry Clay Frick hired the Pinkertons to stop one of these events. Grover Cleveland sent Federal troops to an 1894 one organized by Eugene Debs's ARU. The Homestead Steel Works and Pullman Railroad were hit by—for 10 points—what events in which workers refuse to work?

ANSWER: labor strikes [accept more specific strikes] <LL>

20. The right-hand side of a painting in this style includes an unfinished series of columns and a tiny Saint Jerome. A painting in this style uses light blues, greens, and pinks to depict the *Deposition of Christ*, and was painted by Pontormo. This style is thought to have developed from the massive scale and enigmatic nature of many late works by Michelangelo. This style is exemplified by the bizarre background figures and Cupid's (*) contorted back in a painting by Bronzino, as well as by Parmigianino's *Madonna with the Long Neck*. For 10 points, name this reaction to the High Renaissance, which emphasized asymmetry and exaggerated curving forms.

ANSWER: Mannerism [accept word forms like Mannerist] <JR>

Tiebreaker

21. **A history of this kingdom was written by the man who compiled the works of the Stoic philosopher Epictetus. This kingdom was opposed by the Aetolian League while it led the Achaean League. It was ruled by the usurper Cassander before being taken over by the Antigonid dynasty. This kingdom destroyed the Sacred Band of (*) Thebes at the Battle of Chaeronea. A ruler of this kingdom was succeeded by generals like Seleucus, called the *Diadochi*. Aristotle tutored a ruler of this kingdom whose victories at Issus and Gaugamela destroyed Darius III's Persia. For 10 points, name this Greek-speaking Ancient kingdom, ruled by Philip II and Alexander the Great.**

ANSWER: **Macedonia** <JR>

Bonuses

1. For 10 points each—answer the following about the later development of Abstract Expressionism:

[10] Things started to get really crazy with the “action paintings” of this artist, who painted by throwing, splashing, and dripping paint on the canvas.

ANSWER: (Paul) Jackson **Pollock**

[10] Pollock was an inspiration for painters of *this* Abstract Expressionist style, including Mark Rothko and Barnett Newman. Paintings in this style look very “flat” since they’re mostly juxtaposed blocks of solid color.

ANSWER: **Color Field** painting

[10] Color Field painting was made possible by this new kind of paint, which doesn’t bleed out. These fast-drying paints, which are based on polymer resins, were first made available as house paint in the 1950s.

ANSWER: **acrylics** [accept **Magna** paint] <JR>

2. During the siege of this city, the bumbling Union general Burnside lost the Battle of the Crater. For 10 points each:

[10] Name this city that was besieged for 292 days following the Overland Campaign. This city lay at the junction of five railroads, and was thus a major supply center for the Confederate capital of Richmond.

ANSWER: **Petersburg**

[10] This Confederate general lost the junction of Five Forks, which supplied Petersburg. This man reached the “high-water mark of the Confederacy” during an attack on Cemetery Ridge, on day three of an 1863 battle.

ANSWER: George (Edward) **Pickett** [accept **Pickett’s Charge**]

[10] Both Petersburg and Richmond are in this state, the western part of which split off and was admitted to the Union in 1863.

ANSWER: **Virginia** [do **not** accept or prompt on “West Virginia”] <LL>

3. For 10 points each—answer the following about the *Mabinogion*, the primary collection of Welsh mythology:

[10] The *Mabinogion* includes many stories about the king Bran the Blessed, whose name probably translates to this kind of animal. Odin owns two of these animals named Huginn and Muninn.

ANSWER: **ravens** [accept **crows**; prompt on **birds**]

[10] This son of Pwyll and Rhiannon is one of seven survivors of Bran’s expedition. This king of Dyfed is the only character to appear in all four branches of the *Mabinogion*, and he dies in battle against the wizard Gwydion.

ANSWER: **Pryderi**

[10] The *Mabinogion* also contains a section called *The Dream of Rhonabwy*, in which this king’s soldiers are attacked by ravens while he plays chess. This king is better-known for leading the Knights of the Round Table.

ANSWER: King **Arthur** <JG>

4. Force yourself to answer these questions about forces, for 10 points each.

[10] If object A exerts a force on object B, then object B will exert an equal and opposite force on object A according to Newton’s law of *this* number.

ANSWER: Newton’s **third** law [accept any answer indicating the number **three**]

[10] Forces that, like gravity, are the negative gradient of a potential energy function are described by *this* term. The work done by this kind of force depends only on the endpoints of an object’s path, not the path itself.

ANSWER: **conservative** forces

[10] While integrating a force with respect to *distance* gives the work done, integrating it with respect to *time* gives the impulse, which quantifies *this* transformation that took place while the force was acting.

ANSWER: **change in momentum** [or **delta-p**; accept equivalents for “change” like **difference in momentum**]

<SE>

5. This leader's government was criticized for its lack of a public response to the sinking of the Sewol ferry. For 10 points each:

[10] Name this leader of the Saenuri Party, who became the first female head of state of any Eastern Asian country in 2013. Her dictatorial father ruled over the Third and Fourth Republics from 1963–79.

ANSWER: **Park** Geun-hye [do not accept or prompt on "Park Chung-hee"]

[10] Park Geun-hye is the president of *this* small East Asian country. A scandal surrounding Park recently sparked a four hundred thousand-person protest in this country's capital of Seoul.

ANSWER: **South Korea** [prompt on just **Korea**]

[10] That scandal, which has led to the suspension of Park's presidential powers, is focused on Park's involvement with *this* woman. This woman's father founded a shamanistic cult called the Church of Eternal Life.

ANSWER: **Choi** Soon-sil <AF>

6. The title woman of one of this author's stories is forced to put out an ad in the paper to discover who fathered her child. For 10 points each:

[10] Name this early 19th-century German author of stories like "The Marquise of O——" and plays like *The Broken Jug*.

ANSWER: Heinrich von **Kleist**

[10] Kleist also wrote a story in which Jeronimo and Josephe are blamed for one of these disasters in Chile. Candide and Pangloss experience one of these disasters as soon as they reach Lisbon.

ANSWER: **earthquakes**

[10] Kleist's novella *Michael Kohlhaas* starts with two of these animals being mistreated. Odysseus had the idea to build a wooden one of these animals to sneak a Greek force into Troy.

ANSWER: **horses** <JR>

7. These objects name two Gates constructed at Tiwanaku. For 10 points each:

[10] Name these objects that also name the best-preserved temples, or *huacas* of the Moche culture. One of these objects was worshipped at Coricancha, the biggest temple in Cuzco.

ANSWER: the **Sun** AND the **Moon** [accept **Sol** AND **Luna**]

[10] All of those sites are found in the area around this mountain range. Much of this mountain range was conquered by the Inca ruler Tupac Yupanqui.

ANSWER: **Andes** [or **Andean** Mountains; or Cordillera de los **Andes**]

[10] Many Andean civilizations, including the Inca, recorded information using *quipus*, which are this kind of object. A description is fine.

ANSWER: **knots** [prompt on **strings** or **threads**] <JR>

8. Sadi Carnot described an idealized "engine" that turns this quantity into useful work. For 10 points each:

[10] Name this usually useless type of thermal energy symbolized *Q*, which is generated from friction between two bodies or from reactions like combustion.

ANSWER: **heat** [prompt on **enthalpy**]

[10] Carnot showed that his heat engine had the greatest possible value for *this* measure of its performance, which is the ratio of work produced to heat input. It is lower for real heat engines.

ANSWER: heat engine **efficiency**

[10] Consider a Carnot heat engine that *[read slowly]* takes in heat from a *source* reservoir at a temperature of 300 Kelvin, and dumps it into a *sink* reservoir at a temperature of 100 Kelvin. What is the efficiency of such an engine?

ANSWER: **two-thirds** [or **two over three**; accept **one minus one-third**] (The formula is $1 - \frac{\text{Sink temperature}}{\text{Source temperature}}$.) <SE>

9. This author's last novel, *Wives and Daughters*, was completed by Frederick Greenwood. For 10 points each:

[10] Name this 19th-century English author, who described the effects of the Industrial Revolution on the countryside in her novel *North and South*. She also wrote *Cranford*.

ANSWER: Elizabeth (Cleghorn) **Gaskell** [accept Elizabeth Cleghorn **Stevenson**]

[10] Unlike *North and South*, this novel by Thomas Hardy reimagines the English countryside *before* the Industrial Revolution. The shepherd Gabriel Oak marries the protagonist at the end of this novel.

ANSWER: ***Far From the Madding Crowd***

[10] Both Thomas Hardy and Elizabeth Gaskell were authors from *this* era of British history, named for a Queen who was also "Empress of India."

ANSWER: **Victorian** era <JR>

10. Much of this ability has been linked to the hippocampus and its neighboring entorhinal cortex. For 10 points each:

[10] Name this mental ability to store and recall information. It's often divided into "long-term" and "short-term" components.

ANSWER: **memory** [prompt on any clear synonyms; accept more specific answers]

[10] Short-term, or "working" memory, happens in *this* part of the brain, which controls decision making, planning, and other "higher" thought processes. The "orbital" part of this part of the brain sits just above and behind the eyes.

ANSWER: **prefrontal cortex** [or **PFC**; prompt on **frontal lobe**]

[10] Endel Tulving divided memory into three steps, including storage and retrieval. What is the first step? The "specificity" of this process is why it's better to study in environments that are similar to your exam rooms.

ANSWER: **encoding** <JR>

11. This composer, a perpetual reviser, mostly reused earlier cantata movements for his *Mass in B minor*. For 10 points each:

[10] Name this German Baroque composer of "encyclopedic" works like the *Orgelbüchlein*, *The Art of Fugue*, and *The Well-Tempered Clavier*. He also wrote four orchestral suites and the six *Brandenburg Concertos*.

ANSWER: Johann Sebastian **Bach**

[10] Bach's *Well-Tempered Clavier* is "encyclopedically" organized in *this* way, which is why each book contains 24 preludes and fugues. A description is fine

ANSWER: one or two in **each key** [accept any answer that mentions representing **all of the major and minor keys**]

[10] Bach revised this choral piece throughout his time in Leipzig, at one point removing its opening chorus "Herr, unser Herrscher." This piece includes the alto aria "Es ist vollbracht."

ANSWER: ***Saint John Passion*** [or ***Johannes-Passion***; or ***Passio secundum Johannem***; accept "BWV **245**"] <JR>

12. For 10 points each—answer the following about joint-stock companies in Early Modern Europe.

[10] Two of the earliest and most powerful joint-stock companies were British and Dutch trade companies with *this* two-word name. This name refers to the location from which the companies brought spices and other luxury goods.

ANSWER: **East India** Company [or **EIC**; accept Vereenigde **Oost-Indische** Compagnie or **VOC**]

[10] The Dutch East India Company eventually took control of this entire modern-day country, whose capital was then known as Batavia. This modern country had earlier been ruled by the Srivijaya and Majapahit empires.

ANSWER: Republic of **Indonesia**

[10] The first major joint-stock company was chartered by Mary Tudor to trade with *this* ruler. Henry Hudson got his start working for the company formed to trade with this ruler.

ANSWER: **Ivan the Terrible** [or **Ivan IV**; or **Ivan Vasilyevich**; or **Ivan Grozny**; accept **Ivan the Fearsome**; prompt on just **Ivan**] (The company was called the Muscovy Company.) <JR>

13. How do you know when a computer program will stop? Find out by answering these questions, for 10 points each.

[10] Surprisingly, there's no single algorithm that can always tell you whether or not a given program will stop. In computer science terms, then, the halting problem can be described by *this* adjective.

ANSWER: **undecidable** [accept word forms]

[10] This mathematician's namesake "machines" provided a key step in the proof that an algorithm for the halting problem doesn't exist. This gay British mathematician helped break the German Enigma cipher in World War II.

ANSWER: Alan **Turing** [accept **Turing machines**]

[10] Luckily, all the algorithms people actually use *do* stop eventually, and their runtimes are described using *this* notation. This notation describes how a program's runtime grows with the size of its input, up to a constant.

ANSWER: **Big-O** notation <AF>

14. This author returned to the setting of his stories "Civil Peace" and "Girls at War" in the 2012 memoir *There Was a Country*. For 10 points each:

[10] Name this author whose advocacy of the English language was attacked by Ngugi wa Thiong'o. In this man's last novel, several characters remember the President "His Excellency" from when he was still called "Sam."

ANSWER: Chinua **Achebe** [or Albert Chinualumogu **Achebe**] (The novel is *Anthills of the Savannah*.)

[10] Achebe's *Things Fall Apart* describes a masquerade council of *egwugwu*, who represent *this* kind of being. The *egwugwu* are "revealed" not actually to be this kind of being by Mr. Smith's disciple Enoch.

ANSWER: **ancestor** spirits [prompt on **spirits**, **gods**, or any other supernatural thing like that]

[10] The *egwugwu* are a ritual of the Igbo people of *this* country. Achebe, a native of this country, accused its country of war crimes during the Biafran War.

ANSWER: Federal Republic of **Nigeria** <JR>

15. The mouth of a species in this phylum has a particular shape known as "Aristotle's Lantern." For 10 points each:

[10] Name this phylum whose members possess a water vascular system and an internal skeleton made of a material called stereom. Members of this phylum usually have five-point radial symmetry.

ANSWER: **echinodermata** [or **echinoderms**]

[10] Echinoderms are some of the very few "higher" animals not to be in *this* phylum, which contains mammals, fish, birds, and reptiles. This phylum is named for the presence of a nerve bundle called the notochord.

ANSWER: **chordata** [or **chordates**]

[10] Chordates and echinoderms are both deuterostomes. In deuterostomes, the blastopore develops into *this* feature, which forms second in protostomes.

ANSWER: **anus** (The mouth develops second in deuterostomes.) <AF>

16. This thinker compared geometric and arithmetic growth rates in a 1798 book. For 10 points each:

[10] Name this man who believed that a perfect society could never be achieved because of population growth, a view that is known as his namesake "trap."

ANSWER: Thomas Robert **Malthus** [accept **Malthusian trap**]

[10] Malthus was an influential critic of these laws, which he said led to inflation and thus undermined the people they were meant to help. A 1601 law with this name was amended in 1834.

ANSWER: English **Poor** Laws

[10] Although Malthus disagreed with his contemporary David Ricardo about some particulars of political economy, they were both followers of this economist. This man discussed "the invisible hand" in *The Wealth of Nations*.

ANSWER: Adam **Smith** <JW>

17. For 10 points each—answer the following about a Disney animated series scheduled to be rebooted this year:
[10] The show centers on *these* animals, one of whom owns a “money bin.” An alliteratively-named one of these animals has nephews named Huey, Dewey, and Louie.

ANSWER: ducks [accept DuckTales; accept Scrooge McDuck; accept Donald Duck]

[10] This other Disney show is often incorrectly stated to be set in the same universe. Its title character is a duck superhero whose alter ego is Drake Mallard.

ANSWER: Darkwing Duck

[10] In the film *Who Framed Roger Rabbit?* this black duck faces off with Donald in a piano duel. Like Donald, this rival of Bugs Bunny has a speech impediment, which shows when he says his catchphrase, “You’re despicable!”

ANSWER: Daffy Duck <MK>

18. This collection was first published in 1855, and it was revised by the author until its 1892 “deathbed” edition.
For 10 points each:

[10] Name this massive collection that includes poems like “Out of the Cradle Endlessly Rocking” and “Crossing Brooklyn Ferry.”

ANSWER: Leaves of Grass

[10] This collection of Civil War poems was added to *Leaves of Grass* in 1867. This collection includes such poems as “City of Ships,” “The Wound-Dresser,” and “Vigil Strange I Kept on the Field One Night.”

ANSWER: Drum-Taps

[10] *Leaves of Grass* was written by this American poet. This man declared “Do I contradict myself? / Very well then I contradict myself / (I am large, I contain multitudes)” in his poem “Song of Myself.”

ANSWER: Walt Whitman [Walter Whitman] <LL>

19. For 10 points each—answer the following about Leonard Bernstein’s *West Side Story*:

[10] Bernstein alternated between 6-8 and 3-4 rhythms in a song about this country. In the film version, Bernardo responds to the chorus (“I like to be in” this place) by saying “Life is all right” here “If you’re all white” here.

ANSWER: America

[10] The lyrics for *West Side Story* were written by this man, whose own musicals include *Sunday in the Park with George* and *A Little Night Music*.

ANSWER: Stephen Sondheim

[10] Bernstein used this musical interval as a kind of joke throughout *West Side Story*. For example, the opening two notes of the tune in “Maria” are this interval apart.

ANSWER: tritone [or diminished fifth; or augmented fourth; do not accept or prompt on just “fourth” or “fifth”]
<JR>

20. For 10 points each—answer the following about the archer Arjuna:

[10] Arjuna’s charioteer and companion was this flute-playing eighth avatar of Vishnu. This figure urges Arjuna to fight the Kauravas in the *Bhagavad Gita*.

ANSWER: Krishna

[10] Prior to the major events of the *Mahabharata*, Arjuna marries Subhadra, who has this relation to Krishna. These relatives give each other gifts on Diwali.

ANSWER: brothers and sisters [accept any answer indicating siblings]

[10] Arjuna and Subhadra are the parents of this great warrior, who died after breaking into the Chakravyuha formation of the Kauravas and getting surrounded. In his last stand, he fought the Kauravas with a chariot wheel.

ANSWER: Abhimanyu <AF>

Tiebreaker

21. For 10 points each—answer the following about English politics in the early 1830s:

[10] In 1833, Britain finally abolished *this* practice, a cause that had been championed by William Wilberforce. Josiah Wedgwood campaigned for this practice's abolition with the medallion "*Am I Not a Man and a Brother?*"

ANSWER: **slavery** [or **slave** trading; accept any reasonable equivalents]

[10] England stamped out a fair bit of corruption with *this* 1832 act, which massively increased the number of people who could vote, and got rid of bribery-ridden "pocket" and "rotten" boroughs.

ANSWER: **Reform Act** of 1832

[10] Both the Slavery Abolition Act of 1833 and the Reform Act of 1832 were passed under *this* Whig prime minister.

ANSWER: Earl **Grey** [or Charles **Grey**] <JR>