

Brookwood Invitational Scholars' Bowl

Round 5

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Tossups

1. **An organism from this class was the source of the first oncogene, Src. Lekking is most common in members of this class. The traditional route of vaccine manufacture kills an embryo of an animal in this class. These organisms have unidirectional respiration because they store air in nine large sacs before the lungs. Konrad Lorenz discovered (*) imprinting in this class of animals. They have specialized syrinxes for vocalization and a muscular, gritty gizzard. The H5N1 flu virus has killed thousands of animals in this class, though luckily it hasn't yet spread to humans. For 10 points, name this class of vertebrates with feathers and wings.**

ANSWER: Aves [or birds; or avians; prompt on chickens or geese]

2. **The composer of this work used the notations *ritmo di tre battute* [baw-TOO-tay] and *ritmo di quattro battute* to shape phrasing in its second-movement *scherzo* [SCARE-zoh]. Like its composer's *The Ruins of Athens*, this symphony includes a Turkish march. A cello and bass recitative in this symphony immediately follows what Wagner [VOG-ner] dubbed the "terror fanfare," and is itself followed by a bass (*) vocal solo beginning "O friends, not these tones." Brahms' first symphony was said to follow this symphony, since Brahms' work used this work's theme on Friedrich Schiller's "Ode to Joy." For 10 points, name this "Choral" symphony, the last composed by Beethoven.**

ANSWER: Ludwig van Beethoven's ninth symphony [or *Symphony No. 9 in D minor, Op. 125* after mention]

3. **The ABCFM, under Jeremiah Evarts, fought against this law. This law overturned George Washington's acculturation policy. William Wirt and John Ross brought a case against this law to the Supreme Court. After the Supreme Court effectively overturned this law, the president asserted that the Chief Justice "has made his (*) decision, now let him enforce it!" This law, which was overturned in *Worcester v. Georgia*, was mostly carried out on the Five Civilized Nations like the Chickasaw and Choctaw. For 10 points, name this 1830 law passed under Andrew Jackson, which led to the Trail of Tears and other forced migrations of Native Americans.**

ANSWER: Indian Removal Act of 1830

4. **A novel by this author is narrated by a doctor who doesn't admit that he's a character until Part V, because he wants to be objective. Another of this author's characters earns a stolen panel from the *Ghent Altarpiece* from a bar in Amsterdam. The protagonist of a novel by this author refuses penitence from a chaplain before (*) decapitation. Dr. Rieux narrates a novel by this author set in Oran. After refusing to weep for his mother's death, the protagonist of another of his novels shoots an Arab on a beach. For 10 points, name this French-Algerian author of *The Fall*, *The Plague*, and *The Stranger*.**

ANSWER: Albert Camus

5. **This non-Christian religion believes in two tribes of demons held behind a bronze gate that are only stopped by a killer worm. A demon with one blind eye will try to sway believers in this faith, before Jesus kills it. Belief in Judgment Day is one of its six articles of faith. Some of its members believe in an Occultation, during which its (*) Messiah hides from humanity. After death, righteous people in this religion go to a paradise called *jannah*. This faith believes that Isa will defeat ad-Dajjal with the help of the Mahdi. End times in this religion are described by *hadith*. For 10 points, name this Abrahamic religion which venerates the Prophet Muhammad.**

ANSWER: Islam [or Shia Islam; or Shi'ite Islam; or Sunni Islam; or Muslims]

6. **Henry Manning, Thomas Arnold, Chinese Gordon, and this person were Lytton Strachey's four *Eminent Victorians*. This founder of graphical statistics introduced a pie graph in which each wedge has a different radius, called a polar area diagram. This person's work at Scutari, Turkey led to an article in *The Times* calling her a (*) "ministering angel." This adherent of the "miasmatic" theory requested that a hospital be assembled in Britain, then shipped to the Dardenelles, while serving in the Crimean War. For 10 points, name this "lady of the lamp" and founder of modern nursing.**

ANSWER: Florence Nightingale

7. The rate of this process, plus one, is in the numerator of the discount factor. According to the time derivative of the equation of exchange, the rate of this process is proportional to the time derivative of M , times V over Q . A nominal measurement is converted to a real measurement by accounting for this process. This process is tracked by considering a (*) basket of goods relative to the base year. This phenomenon was coupled with stagnation during the 70s oil crisis. In December 2015, the Fed raised interest rates to prevent this process, which results if the money supply increases. For 10 points, name this phenomenon in which prices go up.
ANSWER: inflation [or deflation]

8. Hugh Evelyn-White collected 33 hymns in dactylic hexameter that are named for, but not written by, this author. A poem by this author repeats phrases like “swift-footed” and “breaker of horses”, and spends 250 lines cataloguing ships and 120 lines describing a shield. Horace coined the phrase “even <this author> (*) nods.” This author names epic similes extending over many poetic lines. The wine-dark sea and the rosy fingers of dawn are examples of his epithets. This author described a hero who’s so angry that his friend Patroclus is killed, that he drags Hector’s body around Troy for a week. For 10 points, name this blind poet of the *Iliad*.
ANSWER: Homer

9. In *The Silence of the Lambs*, Hannibal Lecter incorrectly provides this city as the home of Buffalo Bill. Mark Wahlberg portrayed a football player from here in the Disney film *Invincible*. Bruce Springsteen won an Oscar for a song about the streets of this city, for a movie in which Tom Hanks won an Oscar for playing an (*) AIDS-infected lawyer. Pat Solitano competes in a dance competition at the same time that this city’s football team beats the Cowboys. Apollo Creed twice fights a native of this city and eventually loses a last-round knockout to the “Italian Stallion.” For 10 points, name this setting of *Silver Linings Playbook*, *Rocky*, and the musical *1776*.
ANSWER: Philadelphia, Pennsylvania

10. The effectiveness factor characterizes these substances. They are often ground into tiny pellets and then inserted inside zeolites. These compounds are ruined in a process called poisoning. Their phase determines if they are homogeneous or heterogeneous. These compounds are often written above the arrow in organic (*) chemical reactions. These compounds stabilize the transition state more than they stabilize the reactants. Nickel and palladium serve as these compounds in hydrogenations. They lower the energy barrier for a reaction to occur. For 10 points, name these species that aren’t consumed or created in a mechanism, and speed up a reaction.
ANSWER: catalysts [do not accept or prompt on “enzymes”]

11. This artist convinced six generations of Europeans that rhinoceroses had rivets after a historic scientific drawing. This artist’s self-portrait with long curly hair, wearing a fur collar, looks a lot like Christ. He depicted a gaunt dog sitting at the foot of a cherub and an angry angel in a work whose title is shown on a banner held by a bat. A man on a horse walks through a valley, watched by a goat-headed (*) Devil and by a man on a pale horse, in a print by this artist. A lion and another sleeping dog lounge in St. Jerome’s study in one of his best-known engravings. For 10 points, name this German Renaissance artist of *Melencolia I* and other woodcuts.
ANSWER: Albrecht Dürer

12. Henry the Navigator’s voyages were funded by a Portuguese offshoot of this group. On a Friday the thirteenth, sixty-one members of this organization were arrested for kissing, hazing new members, and spitting on the cross. This organization’s use of safe deposit and letters of credit revolutionized modern banking. Gerard de Ridefort, Grand Master of this organization, was killed at the (*) Siege of Acre. Under Jacques de Molay, this organization was harassed and tortured by Clement V and Philip IV. These rivals to the Hospitallers used a white flag with a red cross in battle against Saladin. For 10 points, name these crusading knights.
ANSWER: Knights Templar [or the Templars; or Poor Fellow-Soldiers of Christ and of the Temple of Solomon]

13. A character in this novel humiliates a friend by playing the words “blunder” and “Dixon” in a word game similar to Scrabble. The protagonist of this novel rudely suggests that a friend will only say three dull things at once while on a very hot picnic. An anonymous piano at the Bates house is assumed to be a gift from Colonel (*) Campbell in this book. This novel’s protagonist convinces her best friend not to marry Robert Martin, a mistake, since Harriet ends up hating Frank Churchill instead. Mr. Knightley winds up marrying the arrogant protagonist of this novel. For 10 points, name this novel by Jane Austen whose title girl is a matchmaker.
ANSWER: Emma

14. Classically, this quantity squared times charge squared is proportional to the radiative power of a point charge. This quantity for a reference frame must be zero for the frame to be inertial. Radius times angular frequency squared has units of this quantity, as does linear velocity squared divided by radius, for an object in (*) uniform circular motion. This quantity's angular counterpart, symbolized alpha, multiplies the moment of inertia to give net torque. Analogously, this quantity times mass equals the net force. For 10 points, name this second derivative of position, and the first derivative of velocity, which is measured in meters per second squared.
ANSWER: acceleration [or a]

15. A vast amount of the emulsifier Corexit was used in the aftermath of this event. Kurt Mix was charged for his role in this event, after deleting hundreds of voicemails about operation "top kill." Tony Heyward was castigated for asking if he could "have [his] life back" during its fallout. This event, which occurred 21 years after a similar event at Ixtoc I, was blamed on contractors for (*) Halliburton and Transocean. During this event, a cement cap failed to prevent the wellhead blowout at the Macondo Prospect. It occurred after an explosion on the Deepwater Horizon rig. For 10 points, name this 2010 environmental disaster in the Gulf of Mexico.
ANSWER: BP oil spill [or British Petroleum oil spill; or the Gulf of Mexico oil spill; or the Deepwater Horizon explosion until it is read; or the explosion at the Macondo Prospect until it is read; accept any answers that mention oil spilling AND either the location or the company responsible]

16. John Ruskin exalted the "nature of" the Venetian offshoot of this movement. The Abbot of Suger patronized this art movement. An English division of this art movement was named for perpendicular lines. This movement used supports on load-bearing walls that weren't directly connected to the wall. It replaced groin (*) vaults with rib vaults. The Palace of Westminster was built during its namesake "revival". St. Denis' Basilica, with its rose windows, pointed arches, and flying buttresses, is part of this movement. For 10 points, name this medieval architectural movement which followed the Romanesque and includes the cathedral of Notre Dame.
ANSWER: Gothic architecture [or Gothic revival; or Venetian Gothic]

17. Triptolemus rapidly grew into an adult after consuming this substance. Cly·tem·nestra has a nightmare about a serpent in which this substance intermingles with blood. The snake Vasuki is used to make a nectar of immortality from this substance. While licking some salty ice, Audhumla [OWD-hoom-la] creates four (*) rivers composed entirely of this material. Kurma lifts up a mountain in an ocean made of this substance. Adrastea and Ida used a goat named Amalthea to provide this substance to Zeus on Mount Ida. For 10 points, name this liquid, which, in Greek myth, formed the galaxy, after it was spilled by Hera when she was nursing Heracles.
ANSWER: milk [or breast milk]

18. A suburb east of this city, to be finished by 2022, will have a theme park four times the size of Disneyland. Chiang Kai-Shek, not Joseph Stalin, attended an Allied conference in this city in November 1943. Saladin desecrated its famous al-Azhar university. The Fatimid Caliphate was centered in this modern city. Muhammad Ali Pasha massacred the (*) Mamelukes at this city's Citadel. The Arab League is headquartered here. The "Friday of departure" rocked this city's central Tahrir Square with protests against Hosni Mubarak. For 10 points, name this most populous city in Africa, the capital of Egypt.
ANSWER: Cairo, Egypt

19. Hart Crane's "The Broken Tower" is the epigraph for this play. A character in this play reflects that soft people have to be attractive, so she buys a paper lantern and constantly takes baths to calm her nerves. Steve and Eunice fight throughout this play. An avid bowler in this play buys a one-way bus ticket to Laurel, (*) Mississippi as a birthday present. This play's protagonist loses her home of Belle Reve, falls in love with Mitch, and is taken away to an insane asylum, but not before she swears to "the kindness of strangers." For 10 points, name this play about Blanche DuBois and the Kowalskis, set in New Orleans, and written by Tennessee Williams.
ANSWER: A Streetcar Named Desire

Note to moderator: Pause at each comma, momentarily, in the second sentence.

20. **Brent's method is used to calculate these values. A recursive scheme to calculate these values sets the second guess equal to: the initial guess, minus the initial value, over the initial derivative. The product of all of these values is computed in Vieta's rules. The number of sign changes shares the same parity as the number of these values that are negative, according to (*)** Descartes' rule of signs. Synthetic division using them yields no remainder. By the fundamental theorem of algebra, the total number of complex ones, accounting for multiplicity, equals the degree of the polynomial. For 10 points, name these values, the x-intercepts on the graph of a polynomial. ANSWER: roots of a polynomial [or zeroes of a polynomial; or x-intercepts until it is read]

TB: **This monarch's allies, the Baron Audley and the Duke of Norfolk, passed the Six Articles. Richard Rich served as this monarch's Solicitor General and got John Fisher beheaded. This leader's chief minister dealt with a Yorkshire uprising but was killed for finding the "Flanders Mare." His Lord Chancellor negotiated a meeting with (*)** Francis I on the Field of the Cloth of Gold. An advisor to this king wrote *Utopia* but got beheaded for opposing the Act of Supremacy. Thomas Cromwell, Cardinal Wolsey, and Thomas More advised this ruler and helped him both marry and divorce Catherine of Aragon. For 10 points, name this Tudor king with six wives. ANSWER: Henry VIII [prompt on partial answer]

Bonuses

1. Answer the following about excerpts of operas that are often performed independently of their source material, for 10 points each:

[10] This Czech composer's "Song to the Moon" from his opera *Rusalka* is a common solo piece by female singers in concerts. He also wrote the "New World" Symphony.

ANSWER: Antonin **Dvorak**

[10] This French Romantic's "Hungarian March" from *The Damnation of Faust* is performed often by wind ensembles and orchestras. He revolutionized programmatic music with a symphony inspired by Harriet Smithson.

ANSWER: Hector **Berlioz**

[10] This interlude from a Jules Massenet opera is performed by itself as a solo piece for violin. This piece comes between scenes in Act 2, when Thaïs must reflect on whether to leave the temple of Venus for the desert.

ANSWER: "**Méditation**" from *Thaïs*

2. You're a good scientist, trying to develop a new miracle drug that cures hair loss. For 10 points each:

[10] When planning clinical trials, you should always include one of these groups in the experiment, as a benchmark for your treated groups. In these groups, the independent variable is not changed.

ANSWER: **control** groups

[10] Funding for medical research in the United States is often provided from this government agency, part of the Department of Health and Human Services. It also has its own Intramural Research Program.

ANSWER: **National Institutes of Health** [or the **NIH**]

[10] You submit your work to the *Journal of Investigative Dermatology*, according to this system that guides all US academic research. By it, only scientists with similar expertise can evaluate research before publication.

ANSWER: **peer review** [prompt on partial answer]

3. Many of this author's most famous poems are collected in *The Tower*. For 10 points each:

[10] Name this Irishman who wrote "The Second Coming" and "Sailing to Byzantium."

ANSWER: William Butler **Yeats**

[10] Yeats began "Sailing to Byzantium" by proclaiming that this is "no country" for these people. Sheriff Ed Bell tracks a series of gruesome murders in a 2005 American novel titled for these people.

ANSWER: "**old men**" [or "No Country for **Old Men**"; prompt on **men**; prompt on **old** people]

[10] This Yeats poem describes creatures that "paddle in the cold/Companionable streams, or climb the air/Their hearts have not grown old." This poem is set where "under the October twilight the water/Mirrors a still sky."

ANSWER: "The **Wild Swans at Coole**"

4. Nucleosynthesis began a few minutes after this event. For 10 points each:

[10] Name this event which led to the mass expansion of the universe from a small, dense core, in the prevailing cosmological model.

ANSWER: the **Big Bang**

[10] The expansion of the universe is accelerating, since this phenomenon increases with distance. This phenomenon, driven by the Doppler effect, is the shift toward longer wavelength for galaxies moving away from us.

ANSWER: gravitational **redshift**

[10] Although the Big Bang should have produced equal amounts of matter and antimatter, the asymmetry in this type of matter--which is composed of three quarks and no antiquarks--suggests a symmetry must have been broken.

ANSWER: **baryonic** matter [or **baryons**]

5. You need to purchase a loaf of bread in a marketplace in ancient Babylon. Good luck. For 10 points each:

[10] Bread in Babylon was made from this grain, not wheat. This grain, one of the first to be domesticated, was also used in ancient times to make beer.

ANSWER: **barley**

[10] An expert haggler, you manage to work the price of the loaf down to 36 shekels, or roughly one-one-hundredth of this unit of mass used ubiquitously in the ancient world. This unit corresponded to about 80 pounds of gold.

ANSWER: Babylonian **talent**

[10] You offer to pay for the bread using corn instead of gold, which the shopkeeper refuses. She is then arrested and drowned, according to a clause from this Babylonian emperor's law code specifying an "eye for an eye."

ANSWER: **Hammurabi** [or the **Code** of **Hammurabi**]

6. For 10 points each, answer these questions about Pierre-Auguste Renoir:

[10] Renoir was a lead painter during this 19th century art movement, also pioneered by painters like Alfred Sisley and Claude Monet.

ANSWER: **Impressionism** [or variants like “**Impressionists**”]

[10] Renoir is most famous for this 1880 painting, in which he depicts a group of his friends in straw hats enjoying a get-together on the Seine.

ANSWER: **Luncheon of the Boating Party** [or *Le déjeuner des canotiers*]

[10] Suzanne Valadon, one of Renoir’s models, is the only one not holding one of these objects in a Renoir work named for them. A man in a top hat holds a blue one on a Paris street in an 1877 Gustave Caillebotte [KYE-uh-boat] painting.

ANSWER: **umbrellas** [prompt on **parasols**]

7. Answer the following about coyotes, for 10 points each:

[10] Coyote and Raven served as this archetype in many Native American traditions. Clever, mischievous gods and heroes like Loki and Maui served this role.

ANSWER: **tricksters**

[10] In a classic tale from the Crow, Coyote accomplished this task by rolling a ball of mud. This task was accomplished by a Chinese goddess who flung a muddy vine through the air.

ANSWER: **creation** of **humanity** [or obvious equivalents like “**making people**”; prompt on **creation**]

[10] This American folk hero was raised by coyotes and believed himself a coyote until an embarrassingly late age. This cowboy dies after laughing to death seeing a Boston man in a ten-gallon hat.

ANSWER: Pecos **Bill**

8. This enzyme is used to synthesize cDNA libraries from a corresponding mRNA transcript. For 10 points each:

[10] Name this enzyme encoded by the genome of retroviruses, which is named because it acts opposite the normal process of turning DNA to RNA.

ANSWER: **reverse transcriptase** [or **RT**]

[10] This retrovirus’ reverse transcriptase is inhibited by zidovudine [zid-oh-VOO-deen]. This virus causes AIDS.

ANSWER: **HIV** [or **human immunodeficiency virus**]

[10] The reverse transcriptase form of this lab technique is used to make cDNA. The quantitative form of this technique, which is confusingly also abbreviated as RT, measures DNA concentration using the dye Sybr-Green.

ANSWER: **PCR** [or **polymerase chain reaction**; or quantitative **PCR**; or reverse transcription **PCR**; or real-time **PCR**]

9. This character’s true identity is alluded to, after another character looks “exceedingly knowing” about an incident and gives a “heartly laugh” at the mention of a pumpkin. For 10 points each:

[10] Name this mysterious character, revealed to be Brom Bones in disguise, whose actions lead to the re-appearance of old Gunpowder in Tarry Town without his saddle.

ANSWER: the “**Headless Horseman**”

[10] Brom Bones’ “Headless Horseman” ruse makes Ichabod Crane disappear in “The Legend of Sleepy Hollow,” a short story by this American author of “Rip van Winkle.”

ANSWER: Washington **Irving**

[10] This alter ego of Washington Irving is the supposed author of “The Legend of Sleepy Hollow.” A postscript “in the handwriting” of this man informs the reader that the story-teller doesn’t believe the tale either.

ANSWER: Diedrich **Knickerbocker**

10. The protocol ending this event provided indemnity money to the United States that was remitted and turned into one of the first modern scholarships. For 10 points each:

[10] Name this 1899-1901 uprising which ended with an unequal treaty signed by the eight-nation alliance as well as by Belgium, Spain, and the Netherlands.

ANSWER: **Boxer** Rebellion [or the **Boxer** Uprising; or the **Yihetuan** Movement; or the Society of the Righteous and **Harmonious Fists**]

[10] China’s century of humiliation didn’t get a whole lot better when it got destroyed in an 1894 war with this other foreign power. This country shockingly crushed Russia with its newly-modernized navy in a war beginning in 1904.

ANSWER: Empire of **Japan** [or **Nippon**]

[10] This man had had enough of the “century of humiliation” when he got emperor Pu Yi to abdicate and declared himself the first president of the Republic of China in 1912, over the objections of Sun Yat-Sen.

ANSWER: Yuan Shikai [prompt on Shikai]

11. The ultraviolet catastrophe was caused by the failure of classical mechanics to account for “bodies” of this color. For 10 points each:

[10] Name this color created by the absorption of all incoming wavelengths of light.

ANSWER: black [or black bodies]

[10] A black body, theoretically an ideal emitter and absorber, obeys this fundamental law of quantum mechanics, which provides the energy quantum in terms of a constant equal to 6.626 times ten to the negative thirty-fourth.

ANSWER: Planck’s Law [or Planck’s constant]

[10] The quantization of energy by Planck’s constant was further demonstrated in a paper about the photoelectric effect, written by Einstein in this year, during which he published four revolutionary papers of modern physics.

ANSWER: 1905 [or the Annus Mirabilis]

12. The English lyrics of this song were performed by Astrud Gilberto on a 1964 recording. For 10 points each:

[10] Name this bossa nova song about a beach-walking figure who is “tall and tan and young and lovely.”

ANSWER: “The Girl From Ipanema”

[10] The bossa nova style originated from this country, also the home of Ipanema Beach. Heitor Villa-Lobos is a classical composer from this Latin American country.

ANSWER: Federative Republic of Brazil [or *República Federativa do Brasil*]

[10] On the *Getz/Gilberto* version of “The Girl From Ipanema,” Stan Getz plays an extended solo on this specific instrument, also the primary specific instrument of Sonny Rollins.

ANSWER: tenor saxophone [prompt on “saxophone” or “sax”; do not accept “alto saxophone” or other kinds of saxophones]

13. Answer the following about the exceptionally rough life of French aristocrats during the 18th century, for 10 points each:

[10] Aristocrats were expected to make an appearance at these gatherings of educated minds, which were often led and organized by women.

ANSWER: salons

[10] The wealthy were expected to be generous with their earnings and serve as a moral example for the lower classes according to this principle, expressed in French, but often more closely associated with Victorian England.

ANSWER: noblesse oblige [no-BLESS oh-BLEEJ]

[10] Apparently, *noblesse oblige* didn’t help when hundreds of aristocrats got decapitated by this device during the Revolution at the end of the century.

ANSWER: guillotine

14. This character is nearly framed for theft when she winds up with a hundred rubles in her pocket. For 10 points each:

[10] Name this character who receives a copper cross from Lizaveta, then gives another cross to Raskolnikov. She goes to Siberia in the epilogue of *Crime and Punishment*.

ANSWER: Sonya Marmeladova

[10] This Russian author of *The Brothers Karamazov* created Raskolnikov, the murderer, and his redeemer Sonya, in *Crime and Punishment*.

ANSWER: Fyodor Dostoyevsky [or Fyodor Dostoevski]

[10] Raskolnikov is Dostoyevsky’s take on this philosophical character, who was first hypothesized by Nietzsche [NEETCH-uh], and is able to transcend normal morality, making him a “superman”. Give the term in German.

ANSWER: übermensch [prompt on English translations similar to “superman” or “overman”]

15. This nation’s Adriatic coast, which includes the city of Split, lies in its Dalmatia region, which is where the dogs got their name. For 10 points each:

[10] Name this country east of Slovenia, which, on a map, looks like it’s swallowing its eastern neighbor Bosnia-Herzegovina. Its capital is Zagreb.

ANSWER: Republic of Croatia [or Republika Hrvatska]

[10] Dalmatia is also home to this walled city, which was sieged by the Serbs during the Croatian War of Independence, despite having no military value. *Game of Thrones* is partly filmed here because it looks medieval.
ANSWER: **Dubrovnik**

[10] This other country on the Adriatic claims to be the oldest republic in the world, although it has a population of only around 32,000 people. It's nested inside Italy.

ANSWER: **San Marino**

16. This group gained worldwide notoriety after kidnapping 276 schoolgirls from Chibok in 2014. For 10 points each:

[10] Name this Islamist terrorist group led by Abubakar Shekau [shay-COW] that is active in Nigeria and other West African nations.

ANSWER: **Boko Haram** [or **Jama'atu Ahlis Sunna Lidda'Awati Wal-Jihad**; or Islamic **S**tate's **W**est **A**frica **P**rovince]

[10] Most of the troops used in the counterinsurgency against Boko Haram have come from this neighboring country. In July 2015, a suicide bomb attack occurred in its capital, killing 15 people.

ANSWER: **Chad** [or **Tchad**]

[10] Terrorism in East Africa is mostly driven by this Somali offshoot of al-Qaeda, which claimed responsibility for the Garissa University College massacre in April 2015.

ANSWER: Harakat **al-Shabaab** al-Mujahideen [or al-**Shabaab**; or **HSM**]

17. This work spends a lot of time discussing the concept of *ren*, which its author intends to mean “kindness” or “benevolence.” For 10 points each:

[10] Name this tome written during the Warring States period, full of aphorisms like “Everything has beauty but not everyone sees it.”

ANSWER: the **Analects** [or **Lúnyǔ**; or **Edited Conversations**]

[10] The *Analects* were written by this ancient Chinese philosopher who emphasized respect to one's family as an imperative.

ANSWER: **Confucius** [or **Kong Fuzi**]

[10] Confucius' teachings re-introduced this concept, similar to the absolutists' divine right of kings. This concept proposed that the Chinese emperor would be granted legitimate rule by the gods, so long as he ruled fairly.

ANSWER: **Mandate of Heaven** [or **tiemang**]

18. Answer the following about post-WWII American culture, for 10 points each:

[10] World War II veterans embraced this set of ideals, which emphasizes the opportunity for upward socioeconomic mobility through hard work and perseverance.

ANSWER: the **American Dream**

[10] This 1944 law gave World War II veterans benefits like low interest home loans, vocational training, and college tuition.

ANSWER: The **G.I. Bill** of Rights [or the **Servicemen's Readjustment Act** of 1944]

[10] Houses in these 1950s suburban communities were assembled quickly and cheaply due to the use of prefabricated parts and assembly manufacturing. They were affordable and popular with returning GIs.

ANSWER: **Levittowns**

19. Answer the following about literary depictions of Leon Trotsky, for 10 points each:

[10] Trotsky is depicted as one of these animals named Snowball in *Animal Farm*. Napoleon, also one of these creatures, dictatorizes the farm.

ANSWER: **pigs** [or **boars**]

[10] Ludvik Jahn writes, “Long live Trotsky!” in this author's debut novel *The Joke*. This man also wrote *The Unbearable Lightness of Being*.

ANSWER: Milan **Kundera**

[10] David Ives' *Variations on the Death of Trotsky* is included in his collection *All in the Timing*, which consists entirely of plays with this characteristic. *The Bald Soprano* also has this characteristic.

ANSWER: **one-act** plays [or plays with only **one act**; or obvious equivalents]

20. This anion [ANN-eye-on] is the namesake of an enzyme that breaks down oxygen radicals into peroxide or oxygen gas. For 10 points each:

[10] Name this unusual anion containing only oxygen. Its bond order is 1.5 and its overall charge is negative one.

ANSWER: superoxide [or O₂⁻]

[10] Conversion of superoxide into oxygen gas would be this type of reaction, since the charge on the oxygen atom increases from negative one-half to zero.

ANSWER: oxidation [prompt on redox reaction]

[10] In galvanic cells, oxidations occur at this electrode, which sends electrons toward the cathode.

ANSWER: anode