

Bulldog High School Academic Tournament 2014 (XXIII): Tonight I Can Write The Hardest Lines
Written by Yale Student Academic Competitions
Edited by Matt Jackson, with Ashvin Srivatsa and Jacob Wasserman

Packet 13 Tossups

1. This composer included "First Loss" and "The Happy Farmer" in a piano collection written for his daughters. In another work, he included slow septuplets against triplets in a movement depicting "Eusebius." That work by this composer includes musical depictions of Chopin, Paganini, and his then-fiancé Ernestine von Fricken, and is based on the letters of the name her hometown, Asch. This composer of *Album for the Young* included "Träumerei" ("troy-mur-EYE") in his *Scenes from Childhood*. For 10 points, name this German Romantic composer of *Carnaval* and symphonies nicknamed "Spring" and "Rhenish," whose A minor piano concerto was premiered by his wife, Clara.
ANSWER: Robert Alexander Schumann <JR>

2. After two of this man's relatives died in a swimming pool accident, he still returned to play in the 2004 MLB playoffs. He took over his most notable job from John Wetteland in 1997. This man suffered a freak injury by tearing his ACL while shagging balls during 2012 batting practice. The last major league player to wear the number 42 full-time, he began entering games to the tune of "Enter Sandman." In this man's last home game in 2013, he left the mound after embracing teammates Andy Pettitte and Derek Jeter. 10 points, name this recently retired New York Yankees closer, the all time leader in saves.
ANSWER: Mariano "Mo" Rivera <Mike Cheyne>

3. This description is applied to bosons with a spin of 1, since their spin states transform like one of these things. One class of these objects is classified as either spacelike, timelike, or null. One operation on one of these things is set equal to zero in Gauss's law for magnetism; that operation is called "divergence", or "del dot". A basis for these things is typically denoted " i hat, j hat, k hat" in rectangular coordinates. The cross product of two of these things yields another one of these things, and addition on them is performed "tip to tail". For 10 points, give this name for a mathematical object with a magnitude and a direction, often expressed as tuples of scalars.
ANSWER: vectors [or vector fields; or three-vectors; accept four-vectors; accept unit vectors] <AS>

4. They're not Jesus or any saint, but these people received marks called stigmata upon reaching the rank of *tiro*. Lentulus Batiatus served as a *lanista* to these people in Capua. Types of these people include the *murillo*, who symbolically represented a fish, and *retiarii*, who carried tridents and nets. At events called *ludi* or *munera*, some of these people dressed up as Thracians or other ethnic stereotypes. The name for these often-tattooed people derives from the name of a standard short sword, and they exclaimed "We who are about to die salute you" to Claudius. For 10 points, name these slaves who fought animals and each other in the Colosseum.
ANSWER: gladiators [prompt on "slaves" until "sword" is read] <MJ>

5. This author created a character who says that finding the meaning of the world is his "meat and drink," and asks "Can't I take breath and try to add life's flash?" saying "paint the soul, never mind the legs and arms!" In another of his poems, the title character accepted a "bough of cherries", rode a white mule around a terrace, and had a "heart...too soon made glad." This author described Fra Pandolf's image of an adulterous character which sits near a bronze of Neptune, "painted on the wall / Looking as if she were alive." For 10 points, name this English poet of the dramatic monologues "Fra Lippo Lippi" and "My Last Duchess."
ANSWER: Robert Browning <JR>

6. A compound named for its lack of this substance is produced by the condensation of two carboxylic acids. On a phase diagram for this molecule, the lower part of the solid-liquid boundary has negative slope. Twenty-three molecules of this substance surround four molecules of methane to form a clathrate. This molecule has an unusually small bond angle of 104.5 degrees, since it has two lone pairs on its central atom. Reagents dissolved in it are indicated by the letters "aq" in parentheses. The calorie was defined in terms of this compound's unusually high specific heat, which is due to hydrogen bonding. For 10 points, name this compound with chemical formula H₂O.

ANSWER: water [or dihydrogen monoxide; or oxidane; or H₂O before it is read] <JR>

7. One thinker from this country wrote that the "sense of propriety" contains our "fellow-feeling" for other people's pain, which ought to conform to that of an "impartial spectator". Another thinker from here classified virtue and vice as "impressions" rather than "ideas," and gave a negative resolution to the "is-ought problem." That man from this country wrote that there is no rational basis for induction except in the case of a color gradient with a missing shade of blue. For 10 points, name this country where *A Theory of Moral Sentiments* and *An Enquiry Concerning Human Understanding* were written by Adam Smith and David Hume.

ANSWER: Scotland [or Alba; prompt on "United Kingdom"; prompt on "United Kingdom of Great Britain and Northern Ireland"; prompt on "Britain"; prompt on "Great Britain"; do NOT accept "England"] <MJ>

8. This commodity was produced by the failed Fordlandia colony in Brazil, which caused an economic boom in Brazil's Amazonas state at the turn of the 20th century. The Casement report revealed that workers who failed to extract this good had their hands cut off by colonial officials in Leopold II's Congo Free State. The Olmecs' name refers to their use of this good, which they used to make the ball for their sacred ball game. This material can be hardened in the vulcanization process pioneered by Charles Goodyear. For 10 points, name this natural latex extracted from trees, which can be processed to make it more elastic.

ANSWER: natural rubber [or India rubber; accept latex before mentioned; prompt on "gum"] <MJ>

9. One man who makes a living using these objects calls up to an attic each Sunday to Sarah and suffers the trashing of his model T. The use of this object sends a "keen tremor" down Edna Pontellier's spinal column. Coalhouse Walker is a professional at using these objects, which Mademoiselle Reisz uses to entertain guests in Kate Chopin's *The Awakening*. Lori's grandfather gives one of these to Beth in *Little Women*. Boy Willie wants to sell old one with African-style carvings, which is held onto by Berniece, in an August Wilson play titled for their *Lesson*. For 10 points, name this large musical instrument which is played to create the title genre of E.L. Doctorow's *Ragtime*.

ANSWER: pianoforte <MJ>

10. The Rungwa River flows into this country's Lake Rukwa, and the saltwater Lake Eyasi is in this country's Ngorongoro Highlands. Mafia Island is part of an archipelago off this country's eastern coast, which contains a component of this country that lost a 45-minute-long "war". A prominent landmark on its northern border is made up of Shira, Mawenzi, and Kibo. *Paranthropus boisei* hominin fossils were found in this country's Olduvai Gorge near a plain famous for its lions. For 10 points, name this east African country home to the Serengeti and most of Mount Kilimanjaro, which formed from the merger of Zanzibar and Tanganyika.

ANSWER: United Republic of Tanzania <ATo>

11. This site was home to the first building specifically designed to hold paintings. The entrance to this location inspired Carl Langhans' design for the Brandenburg Gate. Six statues of women called caryatids support the roof of a south porch here which named for an early king, and metopes on another building at this location depict centaurs. This complex is entered through the Propylaea and contains the Erechtheion. The Elgin Marbles were stolen from a building at this location that housed an ivory and gold statue of Athena by Phidias. For 10 points, name this hill in Athens on which the Parthenon sits.

ANSWER: Acropolis of Athens [prompt on "Athens" until "Langhans" is read, but not thereafter] <NW>

12. Beyond this site, abandoned subway stops were called "ghost stations." Albert Hemsing confrontationally drove to one part of this site, but was backed up by Lucius Clay's tanks. Conrad Schumann was photographed jumping here. Egon Krenz allowed this site to be overrun, and the Alexanderplatz Demonstration opposed Erich Honecker's stance that it would stand for a "hundred more years." Peter Fechter was shot in the death strip of this structure, built on orders of Walter Ulbricht. Checkpoint Charlie crossed this structure, which Reagan called on Gorbachev to "tear down." For 10 points, name this Cold War structure which divided the capital of Germany.

ANSWER: **Berlin Wall** [or **Berliner Mauer**; or **Anti-Fascist Protection Wall**; or **Anti-Fascist Protection Rampart**; or **Anti-Fascist Bulwark**; or **Antifaschistischer Schutzwall**] <JW>

13. This place's harbor is dedicated to Phorcys, and a bloody vision appears here to the prophet Theoclymenus. A ruler of this place departs to plant an oar in the ground. In this place, the virtue of *xenia* is exemplified by Eumaeus the swineherd. A ceiling rafter in this society was used to hang twelve maids by its ruler, who once salted the fields here before Palamedes put a baby in front of his plow. A bed carved out of an olive tree is hidden on this island, where a funeral shroud is repeatedly unwoven as its master is waylaid by Calypso. For 10 points, name this island kingdom where suitors hound Penelope as she waits for her husband Odysseus.

ANSWER: **Ithaca** <MJ>

14. This word describes all the points found in the closure of a set, including accumulation points. The "superior" and "inferior" forms of this operation are equal only for convergent sequences. The definition of "big-O" notation in asymptotic analysis uses one form of this operation. Weierstrass developed the first formal method of evaluating this operation, using "epsilons" and "deltas". When dealing with indeterminate forms, l'Hôpital's rule is used to evaluate this operation. Applying this operation to difference quotients is a common way to define derivatives. For 10 points, name this operation that yields the value a function approaches as its input approaches a given value.

ANSWER: **limits** [accept **limit** points] <AS>

15. One character in this book uses a new way of making jet to make a profit in the bead industry. In the first section of this work, a mansion is renovated to become a hospital by a man christened "Monseigneur Bienvenu." This novel's protagonist steals a coin from a Savoyard boy named Little Gervais and receives a gift from Myriel. In this novel's treatment of Waterloo, Mr. Pontmercy is saved in battle by the innkeeper Thénardier, who later mistreats Fantine's daughter Cosette. This novel's protagonist spends nineteen years in jail for stealing a loaf of bread. For 10 points, name this enormous novel in which Inspector Javert chases Jean Valjean, by Victor Hugo.

ANSWER: *Les* **Misérables** [or *The* **Miserable Ones**; do NOT accept or prompt on "Les Mis"] <JR>

16. When a criterion abbreviated I.I.A. fails in one of these events, the spoiler effect may occur. The Borda count may govern one of these events which does not meet the Condorcet criterion. A small blue banner hangs above a line of men, many of them drunk, in a painting of one in *The County* by George Caleb Bingham. Arrow's impossibility theorem describes the inherent flaws in carrying out these events, which can be "first past the post". A faulty technology for these events caused "hanging chads" to plague Florida during a 2000 event of this kind. For 10 points, name these events in which votes are cast to choose between candidates.

ANSWER: **elections** [accept **votes** until "votes" is read; accept presidential **elections**] <HX>

17. In a memoir, this man recounted his journey from a Kanawha valley coal mine to a place called Hampton. He argued that the chance to "earn a dollar in a factory is worth infinitely more than...spend[ing] a dollar at the opera house" in a speech urging his comrades to "Cast down your bucket where you are." This man founded an institution which later told over 400 black men that they had "bad blood" after injecting them with syphilis. This orator of the "Atlanta Compromise" provided vocational training to poor blacks at the Tuskegee Institute. For 10 points, name this author of *Up from Slavery*, whose theories of black uplift were attacked by W.E.B. DuBois.

ANSWER: Booker Taliaferro Washington <MJ>

18. One girl in this novel is tricked into thinking that she will be crowned queen of Madagascar. Petra runs a livestock lottery in this novel, in which Fernanda corresponds with invisible doctors and shoots a boy who attracts yellow butterflies. Another character in this novel rejects the love of pianola instructor Pietro Crespi; her namesake grand-niece gives birth to a baby with a pig's tail that gets carried away by ants. In this novel, parchments left by Melquiades the gypsy are translated by Aureliano Babilonia as the wind sweeps away a former banana town. For 10 points, identify this novel about the Buendia family's entire tenure in Macondo, by Gabriel Garcia Marquez.

ANSWER: One Hundred Years of Solitude [or Cien Años de Soledad; do NOT accept "A Hundred Years of Solitude"] <GL>

19. As part of the process of affinity maturation, the genes that code for these proteins undergo somatic hypermutation. One molecule of this type, called Rho(D), is injected before childbirth to desensitize an Rh-negative mother to her Rh-positive fetus. In a Western blot, "secondary" varieties of these molecules are linked to a horseradish peroxidase and bind to the Fc or F(ab) region of another protein of this type. By fusing myelomatous cells with spleen cells, monoclonal varieties of these epitope-binding proteins can be formed. For 10 points, name these Y-shaped glycoproteins produced by B cells that bind to foreign antigens and trigger an immune response.

ANSWER: antibodies [or antibody; or immunoglobulins; or Ig; prompt on "Ab"] <GL>

20. This man rushed into the quarters of the Syrian sultan al-Malik, who rejected his offers to spare both their heads. He claimed "Bodily Death" as a sister in a writing that mentions "Sister Water" and "Brother Fire." According to Thomas of Celano, this man helped save the town of Gubbio from a wolf. At San Damiano, this man was told to repair a ruined house by a vision of Christ on the cross. In the early 1200s, this author of the Canticum of the Sun was followed by the female Poor Clares and a namesake order of impoverished friars after receiving the stigmata. For 10 points, name this patron saint of animals, an Italian from Assisi whose name was adopted by the new pope in 2013.

ANSWER: Saint Francis of Assisi <MJ>

21. A crankish biologist from this country argued that plants could inherit the hardiness from deep-freezing parent seeds in his theory of "vernalization." This country was forced to import grain from Canada after it failed to create a national breadbasket in the Virgin Lands campaign. The Cheka and NKVD terrorized people in this country, where the Secret Speech denounced a "cult of personality." This country screwed up its industries with the New Economic Policy and the first Five Year Plans. For 10 points, name this largest modern state EVER, whose rulers included Leonid Brezhnev and Joseph Stalin.

ANSWER: United Soviet Socialist Republics [or USSR; or Soviet Union; or Soyuz Sovetskikh Sotsialisticheskikh Respublik; or CCCP; or "Se Se Se Err"] <MJ>

Bonuses

1. Being a young American lady at the turn of the 20th century is *hard work*. Answer some questions about literary travails of such ladies, for 10 points each.

[10] Despite getting generous proposals from men who love her, like Caspar Goodwood, this heiress and heroine of Henry James' *The Portrait of a Lady* marries the fortune-hunting Gilbert Osmond and suffers miserably.

ANSWER: Isabel Archer [accept either underlined name]

[10] In this novel, thanks to the nasty gossiping of Bertha Dorset, Lily Bart is utterly ruined and falls badly in debt. Even the love of Lawrence Selden cannot rescue her from death by sleeping draught overdose.

ANSWER: *The House of Mirth*

[10] This author of *The House of Mirth* and *Ethan Frome* was herself a New York patrician.

ANSWER: Edith Wharton <GL>

2. This type of state is schematically indicated by a double dagger symbol. For 10 points each:

[10] Name the type of state that lies at a maximum of a potential energy hypersurface. It, along with the states that are formed before and after it, are called activated complexes.

ANSWER: transition state

[10] In order to reach the transition state, reactant molecules must be supplied with this amount of energy. Catalysts reduce this amount of energy by lowering the potential barrier to reaction.

ANSWER: activation energy

[10] The dependence of a reaction's rate constant on its activation energy is described by an equation named for this scientist. He also proposed that bases were substances that donated hydroxide ions.

ANSWER: Svante (August) Arrhenius <AS>

3. This man recorded a cover of Bob Dylan's "All Along the Watchtower" with a band named for his eponymous "Experience," on the album *Electric Ladyland*. For 10 points each:

[10] Name this black guitarist who played a left-handed white Fender before his untimely 1970 death. His hits include "Purple Haze" and "Hey Joe."

ANSWER: Jimi Hendrix

[10] At Woodstock, Hendrix's solo rendition of this song used the guitar to imitate rockets and bombs. Francis Scott Key penned its lyrics during the siege of Fort McHenry.

ANSWER: "The Star-Spangled Banner" [prompt on "the national anthem"]

[10] This distorting effect was used on the opening lick of Hendrix's song "Voodoo Child (Slight Return)". It makes the guitar sound more like an opening and closing mouth when its namesake pedal is pushed.

ANSWER: wah-wah pedal [or wah-wah effect] <MJ>

4. Answer these questions about people or agencies which sold a lot of pages by skewering our elected politicians, for 10 points each.

[10] This political satirist for the Miami Herald writes a "Year in Review" each year which goes month by month. He *Hits Below the Beltway* in the title of one of his books.

ANSWER: David McAlister "Dave" Barry

[10] This book by Halperin and Heilemann is a blow-by-blow, behind-the-scenes account of the 2008 presidential election, which was turned into an HBO movie. Its sequel is called *Double Down*.

ANSWER: Game Change: *Obama and the Clintons, McCain and Palin, and the Race of a Lifetime*

[10] This newspaper's columnists include Charles Krauthammer. Its "Fact Checker" ranks political lies on a scale from one to four Pinocchios. Bob Woodward broke the Watergate scandal for this mid-Atlantic paper.

ANSWER: *The Washington Post* <MJ>

5. These structures are marked today by numbered, blue shields with red tops. For 10 points each:

[10] Name this specific type of thoroughfare, which nicknames a 1956 act signed by Eisenhower. Collectively, this set of 45,000 miles of motorway is America's largest public works project.

ANSWER: interstate highways [or the Interstate; or Interstate Highway System; or Dwight D. Eisenhower National System of Interstate and Defense Highways; accept equivalents mentioning "interstates"; prompt on "freeways," "highways," or equivalents]

[10] Interstates helped enable this migration phenomenon with a rhyming name, in which middle class families moved *en masse* out of racially diverse cities to segregated suburbs.

ANSWER: white flight

[10] This prototypical post-war suburb near Hempstead, New York, was developed by two namesake brothers. Its mass-produced, uniform housing appealed to veterans but lacked many basic services.

ANSWER: Levittown, New York <JW>

6. This author of *The Red Room* wrote a play in which Laura manages to gain custody of her daughter Bertha from the title character. For 10 points each:

[10] Name this playwright of *The Father*, who wrote about a rich woman who has an affair with her valet Jean and walks offstage to kill herself with a razor in *Miss Julie*.

ANSWER: Johan August Strindberg

[10] Strindberg is from this country that was also home to Par Lagerkvist. The Nobel Prize in Literature is awarded yearly in its capital, Stockholm.

ANSWER: Kingdom of Sweden [or Konungariket Sverige]

[10] In this chamber play by Strindberg, which takes its title from a Beethoven work, Hummel hangs himself after humiliating the Colonel. It features a mummy.

ANSWER: *The Ghost Sonata* [or Spoksonaten] <NW>

7. This concept is shown "enlightening the world" in a sculpture by Frederic Bartholdi. For 10 points each:

[10] Name this allegorical woman painted by Eugene Delacroix as a bare-breasted woman holding a French flag and leading the people while stepping over bodies.

ANSWER: Liberty [or *La Liberté*; prompt on "Marianne"]

[10] In this Delacroix painting, a Turkish soldier looks down at a central group of captives while his horse rears up, and a burning town appears behind two groups of mostly nude captives from a Greek island.

ANSWER: *The Massacre at Chios* [or *Scène des massacres de Scio*]

[10] Delacroix depicted a ruler of this non-European country in a yellow robe under a parasol outside a city wall.

ANSWER: Kingdom of Morocco [or Al Mamlakah al-Magribiyah; or Tagldit N Lmgrib; or Maroc] <NW>

8. This process occurs after rock has been broken down into smaller components. For 10 points each:

[10] Name this process in which rock and soil are moved from one place to another by forces like flowing water and gravity.

ANSWER: erosion

[10] In this form of wind-driven erosion, particles too heavy to be suspended bounce along the ground as they move from one place to another. An analogous process also moves bed sediment in rivers.

ANSWER: saltation [or saltatory transport; do not accept "siltation"]

[10] Saltation is particularly important as a mode of transport for this class of sediment, which is intermediate in size between sand and cobble. When compacted into a rock, it forms conglomerate.

ANSWER: gravel [accept pebble] <AS>

9. This man attempted to pass many versions of the Irish Home Rule Act with the help of Charles Parnell, but all of them failed. For 10 points each:

[10] Name this man who was Prime Minister four times during Queen Victoria's reign, a rival of Benjamin Disraeli.

ANSWER: William Ewart **Gladstone**

[10] Gladstone served as Prime Minister with this party, which grew out of the Whigs. It was displaced by the Labour Party in the early 20th century.

ANSWER: **Liberal** Party of the United Kingdom

[10] This general was killed defending Khartoum during Gladstone's last premiership, a fate which the public blamed on Gladstone for sending too little relief to this man.

ANSWER: Charles "Chinese" **Gordon** <MJ>

10. Answer these questions about illicit affairs in Arthurian legend, for 10 points each.

[10] This wife of Arthur engages in a long affair with Sir Lancelot.

ANSWER: **Guinevere**

[10] This traitorous son of King Lot of Orkney defeats Arthur at the battle of Camlann. In later adaptations, he became the illegitimate son of Arthur and Morgan le Fay.

ANSWER: **Mordred** [or **Modred**]

[10] In many version of Merlin's story, his father was one of these cold demons from European folklore, who carry on affairs with women in their sleep.

ANSWER: an **incubus** <MJ>

11. They are composed of an axon, a cell body, and some dendrites. For 10 points each:

[10] Identify these cells, which transmit electrical signals via impulses called action potentials.

ANSWER: **neurons** [or **nerve cells**; do not prompt on or accept "nerves"]

[10] The action potential impulse stimulates the opening of channels for these ions, allowing them to flood into the axon to further depolarize the membrane until the membrane potential becomes positive.

ANSWER: **sodium** (cat)ions [or **Na-plus** ions; do not prompt on or accept "Na"]

[10] During this last period of the action potential, the membrane voltage falls below the resting potential. This period of hyperpolarization ensures that the action potential cannot move backward.

ANSWER: **refractory** period <GL>

12. Answer the following about the use of birdsong in classical music, for 10 points each.

[10] This composer evoked the singing of the title bird in his symphonic poem *Le chant du rossignol*, but he is better known for scoring ballets like *The Firebird* and *The Rite of Spring*.

ANSWER: Igor Fyodorovich **Stravinsky**

[10] This English composer used a solo violin to represent the title bird in his piece *The Lark Ascending*. He also wrote *A Sea Symphony*, *A London Symphony*, and the *Fantasia on a Theme of Thomas Tallis*.

ANSWER: Ralph ["Rafe"] **Vaughan Williams**

[10] This Italian composer called for a real phonographic recording of a nightingale in the third movement of his *Pines of Rome*. He also wrote *Fountains of Rome*.

ANSWER: Ottorino **Respighi** <KK>

13. The injunction to observe this holiday comes from *sawm*, the fourth pillar of Islam. For 10 points each:

[10] Name this month of the Islamic calendar in which believers fast from sunup to sundown.

ANSWER: **Ramadan** [or **Ramzan**]

[10] This angel began revealing the Qur'an to Muhammad on the Night of Power, whose anniversary falls during Ramadan each year.

ANSWER: the Archangel **Gabriel** [or **Jibril**]

[10] Name either the cave in which Muhammad first received his revelations or the mountain containing said cave, just outside Mecca.

ANSWER: Cave of **Hira** OR **Jabal al-Nour** [or **Gar Hira**; prompt on "Mountain of Light"] <MJ>

14. This political leader reigned supreme over local lords known as *daimyo*, and the last ones were descendants and relatives of Tokugawa Ieyasu. For 10 points each:

[10] Name this warlord who had real power in Japan prior to the Meiji restoration.

ANSWER: **shogun**

[10] This era, beginning in 1192, was the first in which a shogun held real power rather than the emperor. The Minamoto, Fujiwara, and Hojo clans all held power during this shogunate, which followed after the Genpei War.

ANSWER: **Kamakura** Shogunate [or **Kamakura** Bakufu]

[10] These storms, thought to be divinely ordained, rebuffed both of Kublai Khan's attempts to invade Japan during the Kamakura era. Give the Japanese term, which means "divine wind."

ANSWER: **kamikaze** <MJ>

15. In one work, people come to this location "from every shires ende / of Engelond." For 10 points each:

[10] Name this location, the destination for a group of pilgrims who stop at the Tabard Inn on their way to visit Thomas à Becket's grave in a work by Geoffrey Chaucer.

ANSWER: **Canterbury** Cathedral

[10] This first Canterbury Tale includes a depiction of a massive battle between Arcite and Palamon over Hippolyta's sister Emily.

ANSWER: the **Knight's Tale**

[10] In this Canterbury Tale, three young men who set out to kill Death end up killing each other after finding a sack of gold coins.

ANSWER: the **Pardoner's Tale** <JR>

16. The *Four Sea Interludes* from this opera are often performed as a standalone work, and the title character reprises the soliloquy "What harbour shelters peace?" in his mad scene at the end of this opera. For 10 points each:

[10] Name this opera based on George Crabbe's poem *The Borough*, which centers on an outcast fisherman who is falsely accused of murdering his apprentice.

ANSWER: **Peter Grimes**

[10] *Peter Grimes* is by this British composer, who also wrote operatic adaptations of *The Turn of the Screw* and *A Midsummer Night's Dream*. He interspersed Wilfred Owen poems with Latin liturgical texts in his *War Requiem*.

ANSWER: Benjamin **Britten**

[10] Britten wrote the part of Grimes for his partner Peter Pears, who sang in this vocal range, which is higher in pitch than a baritone. Pavarotti, Carreras, and Domingo performed together as "The Three [this voice type]."

ANSWER: **tenor** <KK>

17. Madame Recamier and Madame de Condorcet hosted this type of gathering, at which the host would often recline on a couch. For 10 points each:

[10] Name these gatherings of intellectuals and *philosophes* in 18th-century France, usually held in a living room. They included evening *soirées*.

ANSWER: salons

[10] This color of "stockings" was attributed to the intellectual women at salons. This component of the *tricolore* was standardized as the color of the French army uniform by Napoléon.

ANSWER: blue [or azure]

[10] This salon-frequenting woman wrote the unofficial *Declaration of the Rights of Woman* during the French Revolution. She was executed for her Girondist sympathies.

ANSWER: Olympe de Gouges ("GOOZH") <MJ>

18. This discipline was first practiced by the positivist developer of the Law of Three Stages, Auguste Comte. For 10 points each:

[10] Name this social science which studies the ways people interact as parts of associations. W.E.B. DuBois was trained in this discipline which, like anthropology, often uses field research.

ANSWER: sociology

[10] This French author of *Rules of Sociological Method* described the cohesion arising from specialized roles as "organic solidarity" in *The Division of Labor in Society*.

ANSWER: David Émile Durkheim

[10] A Durkheim study named for this action analyzed different rates of this action between Catholics and Protestants. He divided this action into four types, including the anomic type resulting from a lack of connection to social norms..

ANSWER: suicide [or *Le Suicide*] <MW>

19. This behavior is observed once a material is strained beyond the elastic regime. For 10 points each:

[10] Name this phenomenon in which a material deforms permanently under the strain of applied forces. Materials named for this property are characterized by high moldability.

ANSWER: plasticity [or plastic deformation]

[10] In the elastic regime, deformation is characterized by this law, which equates the applied force to a spring constant times the amount of extension.

ANSWER: Hooke's law

[10] Equivalently, Hooke's law can be interpreted to mean that the strain on an object is proportional to the amount of this thing applied to it. Like pressure, this thing is measured in pascals.

ANSWER: stress <AS>

20. In this novel, Abe North is Albert McKisko's second in a duel with Tommy Barban. For 10 points each:

[10] Name this novel. In one scene, Dick and Nicole Diver see Rosemary Hoyt's film *Daddy's Girl*.

ANSWER: *Tender is the Night*

[10] This American author of *Tender is the Night* wrote about Princeton student Amory Blaine in *This Side of Paradise*.

ANSWER: Francis Scott Key Fitzgerald

[10] Fitzgerald's novel *The Great Gatsby* is narrated by this Yale alumnus, who lives in West Egg.

ANSWER: Nick Carraway [accept either underlined part] <JR>

21. Its narrator researches his antebellum relative, Cass Mastern. For 10 points each:

[10] Name this novel, in which a target of blackmail, Judge Irwin, turns out to be the father of Jack Burden. The work centers on an ultimately assassinated populist governor, the iron-fisted Willie Stark.

ANSWER: **All the King's Men**

[10] *All the King's Men* was written by this member of the literary group the Fugitives, a Southern author of *Understanding Poetry*.

ANSWER: Robert Penn **Warren**

[10] In *All the King's Men*, Jack comes up with this concept after meeting an old man with a facial tick. Before rejecting it, Jack uses this term to refer to the random impulses that determine people's actions.

ANSWER: "The **Great Twitch**" [prompt on "Twitch"] <JW>