

## DEES 2014: Desperate Editors Elicit Support

Edited by Will Alston, Rob Carson, Mike Cheyne, Ike Jose, Shan Kothari, John Lawrence, Brian McPeak, Victor Prieto, and Tejas Raje, with additional help from Saul Hankin, Mik Larsen, Jacob Reed and Matt Weiner.

Packet by VCU (Najwa Watson, Akhil Garg, and Cody Voight) and Carleton A

### Tossups

1. Mallika Marshall attempted to defend this item from charges that it had killed a child on an episode of the Katie Couric show that received unrelenting negative attention. The not-actual-lead-researcher in developing this item, Diane Harper, has been continually misrepresented as informing the public that this item is dangerous. A common charge against this item is that its efficacy is a mere five years, which is false. Referencing this item, Michele Bachmann claimed that those who have a negative reaction to it don't get a "mulligan", and later claimed that "a woman [...] came up crying to me tonight after the debate. She said her daughter was given [it]. She told me her daughter suffered mental retardation as a result of [it]". In 2007, Rick Perry issued a mandate that all sixth grade girls be administered this vaccine. For 10 points, identify this vaccine against a sexually transmitted virus that causes most cervical cancers.

ANSWER: the Gardasil HPV vaccine [accept either underlined portion; or the Cervarix HPV vaccine; "vaccine" is not needed once it has been read]

2. The phrase "here and now be humble" was found in the burial shaft of a sarcophagus from this culture excavated by Pierre Montet in 1923 that also contains a 38-word inscription. Fernand Braudel cited this culture as an early example of a "world-economy" surrounded by empires. The Iles Purpuraires produced the namesake purple dye of a city from this culture, which built the city of Byblos. Alexander the Great built a giant causeway to besiege one of this culture's cities. This Canaanite culture's alphabet was the basis for Greek and Aramaic writing, and it was centered on cities like Sidon and Tyre. For 10 points, name this ancient Near Eastern culture that founded Carthage.

ANSWER: Phoenicia [or Phoenician culture; or Phoinike; accept equivalents indicating the Phoenician people, Ponnim, Punim, or Punici; accept Canaanites or Kan'anim until mentioned]

3. The Dirac equation is extremely hard to solve for this system, requiring one to do things like use a Lorentz scalar potential and enforce the continuity of the probability current rather than wavefunction. Introducing a compactified extra dimension perturbs the energy levels of this model by a factor proportional to one over the length of the dimension squared. The energy levels of this system are [READ SLOWLY]  $n^2 \hbar^2 \pi^2 / 2mL^2$  and the normalization factor is square root of 2 over L. The boundary conditions imply that the solutions to the time-independent Schrödinger equation are sines. For 10 points, identify this simple quantum mechanical model which has a zero potential in some region and infinite potential outside the region.

ANSWER: particle inside a one-dimensional box model [or one-dimensional box model; or infinite potential well model; or infinite square well model, prompt on square well]

4. Borges's *The Book of Imaginary Beings* describes an animal imagined by this author that resembles a kangaroo, has a human face and a fluttering tail. This writer imagined that the most important weapon of the sirens was their ability to stay silent; in another work that was also translated into English by Willa and Edwin Muir, the title character relates his manner of death to the Burgomaster of Riva. In another short story by him, a man named Karl is sent abroad after seducing a housemaid and he tries to stop Mr. Schubal from firing a man with the title profession. This author of "The Hunter Gracchus" incorporated "The Stoker" as the first chapter of his novel *Amerika*. For 10 points, name this man who wrote about Gregor Samsa transforming into a giant insect in "The Metamorphosis."

ANSWER: Franz **Kafka**

5. This compound negatively regulates the salicylic acid-dependent defense pathway. The activity of this compound is regulated by ABRE transcription factors, which in turn are regulated by ABFs. The 40-carbon carotenoid violaxanthin is photolytically cleaved to form the main precursor of this compound, the 15-carbon xanthoxin. In addition to ethylene, this isoprenoid hormone promotes strawberry ripening. During water stress, this hormone closes stomata, and since its effect is the opposite of gibberellins, the balance between the two determines seed germination. For 10 points, identify this inhibitory plant hormone named for its role in leaf abscission.

ANSWER: **abscisic acid** [or **ABA**, or **abscisin II**, or **dormin**]

6. In this film, three people sitting around an umbrella against a backdrop of red-orange bricks are frequently depicted complaining. The distinctive opening credits of this film feature a Puerto Rican woman dancing against various dimly lit backdrops in a dress, a one-piece, and boxing trunks and gloves. During one of the final scenes of this film, a cut is made to a character's shaking feet, clad in Air Revolutions, which abruptly stop moving as he is strangled with a nightstick. That character wears two four-fingered rings that say "Hate" and "Love" and carries around a boom box that blasts Public Enemy's "Fight the Power". In this film, Mookie throws a trash can through a window of Sal's pizzeria, sparking a riot that results in the death of Radio Raheem. For 10 points, name this film set on the hottest day of summer in Bed-Stuy, directed by and starring Spike Lee.

ANSWER: **Do the Right Thing**

7. In a work by this philosopher, the distinction between *de re* and *de dicto* forms of the second title concept allows for the statement "if 'x is equal to y,' then it must be the case that 'x is equal to y.'" This philosopher argued that psycho-physical identities are false because they are conceivably false, leading Joseph Levine to coin the term "explanatory gap." He imagines a bilingual boy who believes that "London is beautiful" and "London is not beautiful" in two different languages in "A Puzzle About Belief." He argued that "Hesperus is Phosphorus" is an a posteriori necessity. He gave a series of three lectures that defend a Millian theory of names and contend that proper names and natural kinds refer to the same thing across all possible worlds. Rigid designators were introduced by, for 10 points, what author of *Naming and Necessity*?

ANSWER: Saul Aaron **Kripke**

8. A parody of this poem by Mark Defoe that begins "Reason with them. Speak Softly. Hide Your Stick." appears in the *Brand-X Anthology of Poetry*. In *On Extended Wings*, Helen Vendler calls this poem's author a "sausage-maker" since he is construed by a double vision in constructing it. This poem describes "the bawds of euphony [that] would cry out sharply" in its tenth stanza, while its final stanza begins "It was evening all afternoon. it was snowing and it was going to snow." This poem asks the thin men of Haddam "Why do you imagine golden birds?" It opens by noting "Among twenty snowy mountains, the only moving thing was the eye of the" title animal. For 10 points, name this poem by Wallace Stevens that suggests numerous approaches of viewing a certain animal.

ANSWER: "**Thirteen Ways of Looking at a Blackbird**"

9. In the chapter "On Realism in Art", this thinker compared the suicides of Poor Liza and Anna Karenina. One form of analysis by this thinker labelled markedness with a plus or a minus sign. This thinker contested Bertrand Russell's claim that knowing a word's meaning requires knowing its reference in a work that distinguishes intralingual, interlingual, and intersemiotic translation. He was influenced by Karl Bühler's Organon-Model to describe six functions of verbal communication. He claimed that phonemes are complexes of binary features such as voiced vs. unvoiced and nasal vs. oral. He developed that distinctive features theory in his *Preliminaries to Speech Analysis*. For 10 points, identify this Russian-American linguist of the Prague School.

ANSWER: Roman Osipovich **Jakobson**

10. While dying, this man apocryphally called former aide Whitelaw Reid a "son of a bitch" for stealing his business. Thomas Nast depicted him extending his hand at Andersonville in a parody of a letter urging for the North and South to "clasp hands over the bloody chasm." This writer earlier urged the enforcement of the Confiscation Acts against slavery in his article, "The Prayer of Twenty Millions." This man was nominated as the "Liberal Republican" candidate in a failed presidential run in 1872 against Ulysses S. Grant. Earlier, this Whig employed Karl Marx as the European correspondent for his newspaper. For 10 points, name this *New York Tribune* founder, who apocryphally wrote the piece of advice, "Go West, young man."

ANSWER: Horace **Greeley**

11. Verdine White plays bass on the last track of this artist's most recent release, which concludes with a verse beginning "Tell me what's wrong / No I can't tell you what's wrong". The cover of this artist's most recent release is split horizontally into two shades of orange, with the text on each section being the opposite shade of orange from the background, a common cover strategy - with different colors - for her current label, Terrible Records. In the music video for her most recent lead single, this artist is found wearing eye-popping bold prints and snapping her fingers around Cape Town while singing lines like "We used to kiss all night but now there's just no use". This artist famously starred alongside Hayden Panettiere in *Bring It On: All or Nothing*. Her most recent release is the seven song EP *True*, which fronts the single "Losing You". For 10 points, name this singer unfortunately best known for attempting to beat the shit out of her brother-in-law Jay-Z in an elevator.

ANSWER: **Solange** Knowles [prompt on **Knowles**]

*Note to moderator: pause with each comma.*

12. In one context, this quantity is equal to molecular mass times the speed of sound squared, over temperature times the adiabatic constant.  $K_{\text{sub } c}$  times quantity, temperature times this constant, raised to the change in moles, is equal to  $K_{\text{sub } p}$ , or the equilibrium constant defined by pressure. This constant equals specific heat at constant pressure minus specific heat at constant volume. This constant divided by Avogadro's number gives Boltzmann's constant, and it can be defined as either 0.0821 liters times atmospheres over moles times Joules, or 8.314 Joules per mole Kelvin. For 10 points, identify this constant symbolized capital R in the ideal gas law.

ANSWER: ideal/molar/universal **gas constant** [or **R** until mention, prompt after]

13. A character in this play is described as wearing twenty-three-inch-bottom trousers and blanco-white tennis shoes. In one scene in this play, a character compares the gloss of a magazine to the smoothness of a parrot's breast. Later, a character plucks the armpit hairs of one character hard after learning he intends to take another wife. That character in this play earns the nickname "the fox" after preventing a railway from running through the central town by bribing a surveyor. In the "Noon" act of this play, a character has her photograph featured in a Western magazine and rejects Sadiku's invitation to attend a dinner. In this work, Lakunle refuses to pay a bride price for the woman he wishes to marry. For 10 points, name the play featuring Baroka and Sidi, a play by Wole Soyinka.

ANSWER: *The **Lion and the Jewel***

14. During this initiative, the chaplain Christian von Wernich served as an interrogator. The "Full Stop" and "Due Obedience" laws exempted participants in this initiative from prosecution. During this initiative, a navy mechanical center called ESMA was secretly used as a prison. The "Group of Seven" was targeted by this initiative, which included the Night of the Pencils. People were dropped from the sky into the ocean during this campaign's "death flights." This initiative was carried out under the government of Jorge Videla and prompted protests by mothers of its resulting *desaparecidos*. For 10 points, name this 1970s campaign against dissidents in Argentina.

ANSWER: **Dirty War** [or La **guerra sucia**; prompt on "Operation Condor"]

15. On one of these days, meat is divided into three portions, one of which is set aside for the poor. On one of these days, a vermicelli pudding called Sheer Kurma is served, part of the reason that day is called "sweet." One of these days is dedicated to a miracle in which a boy was swapped with a ram. *Idgahs* are open-air places for special prayers performed on these days during which six extra *takbirs* are recited and no call to prayer happens. One of these days commemorates Abraham's willingness to sacrifice a son, while another comes at the end of Ramadan. For 10 points, name these Islamic festivals, one of which celebrates the "breaking of the fast" or *fitr*.

ANSWER: **Eids** [prompt on "Islamic festivals" until mentioned; accept **Eid al-Fitr** or **Eid al-Adha**]

16. Real numbers are described by this word if their infinite sequences have an even distribution every digit, and every pair of digits, and so on. Hausdorff spaces of this type satisfy the axiom that every disjoint closed set has an open neighborhood. For a two dimensional manifold, this vector at a point is orthogonal to the tangent space at that point. Simple groups have none of this type of subgroups which have the same right and left cosets. Each column vector in an orthogonal matrix has this property which means that it has a length of one. For 10 points, name this word that describes a distribution which is also called "Gaussian".

ANSWER: **Normal**

17. This writer wrote a book in which a woman cross-dresses while traveling to Douglasdale with her minstrel Bertram so that she can live at the Convent of St. Bride. In that novel by this author, Lady Augusta promises to marry John de Walton if he can maintain the title castle for a year and a day. In another of his novels, Rashleigh is cut out of his father's will, which causes him to steal some documents that besmirch Sir Frederick's name. In another novel by this author of *Castle Dangerous*, the title character falls in love with Diana Vernon while staying with his uncle Sir Hildebrand. That book tells of Frank Osbaldistone during the Jacobite Uprising. For 10 points, name this author of *Rob Roy* whose *Tales of My Landlord* series includes *Waverley*.

ANSWER: Sir Walter Scott

18. This god stole a horse from King Sagar to prevent him from making a sacrifice that would make him emperor of the world. A common metaphor for interconnectedness among Buddhists is this god's jewel-studded net. This god agreed to make Hanuman immortal after smiting him when he tried to swallow the sun. Capturing this deity in battle earned Meghanada a new name. This god, who released Ushas from the cave of Vala, lived on Mount Meru. In another story, he passed through ninety-nine fortresses while on the way to recover all the water in the world. This deity, who rides a white elephant named Airavata, killed the demon Vritra with his *vajra*, a lightning bolt that has the power to make rain. For 10 points, name this Vedic god whose role as chief of the Devas was later usurped by the gods of the Trimurti.

ANSWER: Indra [or Sakra]

19. Alan Sked's essay on this man *and the Myth of Federalism* appears in a collection dedicated to A.J.P. Taylor, who called this man "the most boring man in Europe." A meeting convened by this man endorsed the "Spanish Expedition" by France to end the Trienio Liberal and was held at Verona. He remarked that "when France sneezes, the rest of Europe catches a cold." Following the assassination of August von Kotzebue, this politician banned all *bursenschaften*. This statesman resigned following the revolutions of 1848. For 10 points, name this issuer of the Karlsbad decrees and maintainer of the Concert of Europe, the Austrian leader of the Congress of Vienna.

ANSWER: Klemens von Metternich [or Klemens Wenzel Nepomuk Lothar, Fürst von Metternich-Winneburg zu Beilstein]

20. The mysterious words "LUS" and "LOGH" appear in a Marsden Hartley painting of this type called *Handsome Drinks*. Anne Vallayer-Coster won the favor of Marie Antoinette while working in this genre, a specific variety of which earned Jan Brueghel the Elder one of his nicknames. A type of these paintings that were popular in Baroque Spain were known as bodegóns. The most expensive painting in this genre ever sold at auction was *Rideau, Cruchon et Compotier*, a work by Paul Cezanne. It was the lowest rung on the Académie Royale's "hierarchy of genres". Paintings of this type that include bubbles, skulls, or other reminders of death are referred to as *vanitas*. For 10 points, name this genre of painting that usually depicts flowers, fruit, or other inanimate objects.

ANSWER: still life [antiprompt, e.g. "Can you be less specific?", on "vanitas" or "flower paintings" before they are mentioned or "trompe-l'oeil" at any point]

21. This work's E-major second movement alternates between chords for strings and harp and for horns and bassoons, all marked with four p's. This work's last movement is interrupted only twelve bars into its *allegro frenetico* G-minor opening by an Adagio section marked "reminiscence of the introduction". Though not by Mendelssohn, this work's second movement depicts a march of pilgrims through the mountains, and this work concludes with an "Orgy of the Brigands". The original commissioner of this piece declined to premiere it, when he discovered that there were too many rests for the solo viola, which represents the title character. Written four years after the *Symphonie Fantastique*, for 10 points, name this symphony inspired by Lord Byron poem, by Hector Berlioz.

ANSWER: *Harold in Italy*, Symphony in Four Parts with Viola Obbligato [or *Harold en Italie*, Symphonie en quatre parties avec un alto principal, or Hector Berlioz's Op. 16]

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### Bonuses

1. Critics claimed this act was meant to curb the power of Harry Hopkins. For 10 points each:

[10] Name this 1939 piece of legislation that prevents executive branch employees from engaging in partisan political activities. It does not apply to either the President or Vice-President.

ANSWER: **Hatch** Act [or Act to **Prevent Pernicious Political Activities**]

[10] Hopkins was the head of this New Deal agency, which employed the jobless to carry out public projects. Unlike the CCC, it also funded artists and actors as part of the “Federal Project Number One.”

ANSWER: **WPA** [or **Works Progress Administration**; or **Work Projects Administration**]

[10] The Hatch Act applies to employees of this federal agency, the lead U.S. counterterrorism agency. Its longtime leader was the notorious J. Edgar Hoover.

ANSWER: **F.B.I.** [or **Federal Bureau of Investigation**]

2. This phenomenon normally occur in either a dipole or tripole pattern, termed Rex and Omega respectively, with one high pressure ridge and either one of two low pressure areas. For 10 points each:

[10] Name this phenomenon in which a persistent high-pressure system diverts mid-latitude weather systems, sometimes causing an area to have the same weather for extended periods of time.

ANSWER: atmospheric **blocking** [or meteorological **blocking**; or **blocking** highs; or **blocking** anticyclones]

[10] The Omega and Rex blocks are named because of the shape of these lines on a weather map, which easily show low pressure and high pressure regions. Every location along these lines has equal pressure.

ANSWER: **isobar**

[10] The left and right sides of an omega block have normal temperatures due to this process working on warm air and cold air. In meteorology, this process is simply defined as the transport of some variable from one region to another, such as temperature or moisture.

ANSWER: **advection**

3. This two-week operation was led by General George Erskine. For 10 points each:

[10] Name this British military operation, which rounded up nearly 20,000 suspected rebels in Nairobi and placed them in the Langata camp.

ANSWER: Operation **Anvil**

[10] Operation Anvil targeted members of this Kikuyu-led anti-colonial rebellion in Kenya, which began in 1954.

ANSWER: **Mau Mau** uprising [accept equivalents for “uprising” like “rebellion”]

[10] This leader of the Aberdare mountain guerrillas was the most prominent leader of the Mau Mau Uprising. His 1957 trial and execution are depicted in a play co-written by Micere Mugo and Ngugi wa Thiong’o.

ANSWER: Dedan **Kimathi**

4. The couple who wrote this book divided social life into six parts, including “Getting a Living” and “Making a Home.” For 10 points each:

[10] Name this 1924 “Study in Modern American Culture” carried out by Robert and Helen Lynd in Muncie, Indiana, which they assigned the namesake pseudonym.

ANSWER: Middletown: *A Study in Modern American Culture*

[10] *Middletown in Transition* was published after Robert Lynd returned to Muncie in 1935 to study the effects of this era of economic hardship, which began with the 1929 stock market crash.

ANSWER: Great Depression

[10] Among the Lynds’ findings in Muncie was that this product had ushered in a new era of sexual relations.

ANSWER: cars [accept equivalents such as automobiles]

5. This onomatopoeic poem tells of how the title objects “tinkle, tinkle, tinkle / In the icy air of night!”. For 10 points each:

[10] Name this poem in which the author coins the term “tintinnabulation” to describe the rhythm of the title objects.

ANSWER: “The Bells”

[10] The speaker of this other poem by Edgar Allan Poe remembers his lover as a child when they both lived “in a kingdom by the sea and he blames angels for ‘chilling and killing’ this woman out of envy.

ANSWER: Annabel Lee

[10] Two answers required in the correct order. In another poem, Edgar Allan Poe compares the beauty of Helen to “those Nicean barks of yore” and “the glory that was [this place], and the grandeur that was [this other place].”

ANSWER: Greece and Rome (Must be in order!)

6. Works in this branch of philosophy include Immanuel Kant’s *Critique of Judgment*, which spends its second half discussing the teleology of beautiful objects. For 10 points each:

[10] Name this branch of philosophy concerned with art and beauty.

ANSWER: aesthetics

[10] In the 18<sup>th</sup> century, the aesthetic “quarrel” named for these two groups was the subject of much debate in the French Academy. The quarrel basically asks whether antiquated or progressive notions of beauty are more correct.

ANSWER: Quarrel between the Ancients and Moderns [need both underlined components; accept Querelle des Anciens et des Modernes]

[10] Immanuel Kant also wrote a work that distinguishes the enjoyment derived from beauty with the enjoyment derived from this other feeling, which is a mixture of awe and horror. Looking at a waterfall, or the night sky induces this feeling, according to Kant.

ANSWER: the sublime

7. A predella depicting a black-cloaked man leaning back with his hands clasped behind his head was added to this painting at the behest of its commissioner, William Graham. For 10 points each:

[10] Name this 1877 painting whose title woman, modeled on Alexa Wilding, has seven stars in her hair and, as in the poem it was based on, leans out from the gold bar of Heaven..

ANSWER: *The Blessed Damsel*

[10] *The Blessed Damsel* is a work of this poet and painter, who founded the Pre-Raphaelite Brotherhood with his friends John Everett Millais and William Holman Hunt.

ANSWER: Dante Gabriel Rossetti

[10] Rossetti’s painting *Beata Beatrix* was modeled on this woman, his wife, who caught severe pneumonia after spending hours on end in a cold bathtub modeling for Millais’s *Ophelia*.

ANSWER: Elizabeth Siddal



8. One of the title characters of this novel uses a wish to liberate a woman cursed to wake up every day next to the handkerchief that was used to suffocate her child. For 10 points each:

[10] Name this novel in which the other title character pens a manuscript on Pontius Pilate.

ANSWER: The **Master and Margarita**

[10] This vodka-loving demonic black cat is part of the demented retinue of Woland in *The Master and Margarita*. In a hilarious scene, he beheads Bengalsky and reattaches his head as part of an act for the crowd.

ANSWER: **Behemoth**

[10] This Russian novelist wrote *The Master and Margarita* and *The White Guard*.

ANSWER: Mikhail **Bulgakov**

9. Identify the following about the ladies of the Epic Cycle, for 10 points each.

[10] As related in the *Aethiopis*, this daughter of Ares arrives shortly after the death of Hector and is killed by Achilles, who then kills Thersites when the latter taunts him.

ANSWER: **Penthesilea**

[10] In the *Iliou persis*, this daughter of Hecuba and Priam is raped by Ajax the Lesser in a temple of Athena. Apollo gave her the power of prophecy, but after she refused his advances, he cursed her to never be believed.

ANSWER: **Cassandra** [or **Alexandra**]

[10] The *Little Iliad* describes how this woman's child is killed by Neoptolemus, who takes her as a concubine. Neoptolemus's jealous wife Hermione later tries to have this woman killed.

ANSWER: **Andromache**

10. Two acetyl-CoA molecules are combined in this reaction to form acetoacetyl-CoA, the precursor of HMG-CoA. For 10 points each:

[10] Identify this organic condensation reaction where an ester undergoes a nucleophilic acyl substitution to yield a beta-keto ester.

ANSWER: **Claisen** condensation

[10] In the Claisen condensation, this ion serves as the nucleophile. This alkene derivative has a hydroxyl group connected to a double bond, but that hydrogen can shift onto the double bond to form a ketone.

ANSWER: **enolate**

[10] This convenient strong, bulky base prepared from n-butyllithium and diisopropylamine can form an enolate by selectively deprotonating less-substituted hydrogens beta to a ketone, forming the Hoffman product.

ANSWER: **LDA** [or **lithium diisopropylamide**]

11. The Ket people historically lived in the basin of this river, which terminates in a namesake gulf in the Kara Sea. For 10 points each:

[10] Name this Siberian river, which is the largest of the three that flows into the Arctic Ocean and is thus way cooler than the Ob and Lena rivers.

ANSWER: Yenisei River

[10] In 2009, one of the biggest dam disasters in Russian history occurred on the Yenisei at this dam, the largest power plant in Russia, killing 75 people when the engine and turbine rooms were flooded after a turbine detached from its bearings and flew 50 feet in the air.

ANSWER: Sayano-Shushenskaya Dam [or the Sayano-Shushenskaya Hidroelektrostantsiya; or the OJSC P. S. Neporozhny Sayano-Shushenskaya HPP]

[10] The majority of the energy from the Sayano-Shushenskaya Dam was used by an industry that smelts this metal. This metal is smelted by employing the Hall-Heroult process on its oxide.

ANSWER: aluminum [or aluminium]

12. Answer some questions about 18th-century British politics, for 10 points each.

[10] This Prime Minister served a full 20 years in the post before being replaced with Lord Wilmington. The poem “Who Killed Cock Robin” satirized this man’s government, which was called the Robinocracy.

ANSWER: Robert Walpole, 1st Earl of Orford

[10] Prime Minister George Grenville introduced this Act in 1765, an attempt to impose a direct tax on British Colonies. It targeted printed materials, and it was quickly repealed a year later due to its unpopularity.

ANSWER: Stamp Act

[10] A coalition between these two men resulted in a 1783 government with William Cavendish, Duke of Portland as its Prime Minister. The attempt of these two men to reform the British East India Company was halted by King George III.

ANSWERS: Charles James Fox AND Frederick North, 2nd Earl of Guilford

13. The original scoring of this piece called for a whopping 24 oboes. For 10 points each:

[10] Name this orchestral work that was commissioned for a celebration of the end of the War of the Austrian Succession. Its third movement is a *Largo alla siciliana* that, suitably for the occasion, is titled “La Paix”.

ANSWER: *Music for the* Royal Fireworks

[10] The *Music for the Royal Fireworks* is by this German-English Baroque composer of the *Water Music* and *Messiah*.

ANSWER: George Frideric Handel [or Georg Friederich Händel]

[10] The opening *sinfonia* of Handel’s *Messiah* is followed by two tenor arias, “Comfort Ye My People” and this aria, which uses text painting to illustrate a hill being made low and the crooked being made straight.

ANSWER: “Ev’ry Valley Shall Be Exalted”

14. In this story, Eloise is unhappily married to Lew, who does not possess the qualities of her first lover Walt, a man who died in a freak accident while serving in the military. For 10 points each:

[10] Name this short story by J.D. Salinger, whose title comes from a comment Walt made about the ankle Eloise sprains while running for a bus.

ANSWER: “**Uncle Wiggily in Connecticut**”

[10] In this other short story by J.D. Salinger, Seymour tells Sybil a story about a fictional aquatic animal on the beach before returning to his hotel room and committing suicide.

ANSWER: “A **Perfect Day for Bananafish**”

[10] Seymour Glass writes a letter from summer camp in this novella, which details how Seymour gashed his leg on a cart wheel and must spend some time in the Camp Simon infirmary.

ANSWER: “**Hapworth 16, 1924**”

15. This text contains both the ordination of Aaron and the fiery deaths of his sons Nadab and Elihu when they made sacrifices with “strange fire.” For 10 points each:

[10] Name this third book of the Old Testament, which describes how sacrifices should be made, and details prohibited actions, which include the consumption of blood, child sacrifice, the worship of Molech and myriad sexual practices.

ANSWER: **Leviticus**

[10] This third son of Aaron became the high priest after Aaron’s death, since his two brothers were burnt up in God’s fiery wrath.

ANSWER: **Eleazar**

[10] This Epistle, found between Philemon and James, relates how Christ comes in a tradition of Levitical priesthood to fulfill the Old Testament. It claims that as High Priest, Christ is superior to angels in glory and is greater than Moses and Aaron and all the prophets.

ANSWER: Epistle to the **Hebrews** [or Letter to the **Hebrews**]

16. This quantity determines the efficiency of conversion of spatial anisotropy to momentum-space anisotropy in quark-gluon matter. For 10 points each:

[10] Name this quantity defined as the ratio of shear stress to shear rate for a fluid. It’s measured in poise and superfluids don’t have any.

ANSWER: shear **viscosity**

[10] The Relativistic Heavy Ion Collider at Brookhaven National Laboratory was likely the first to truly produce a quark-gluon plasma, doing so by colliding ions of this element. Relativistic effects elevate the energies of this element's 5d electrons, giving it its color.

ANSWER: **gold** [or **Au**]

[10] Gold has steadily lost ground to copper for this microfabrication technique used to join a chip to a structural component or other packaging. This technique uses a metallic loop welded at its ends onto the connecting metallizations of the components to be joined.

ANSWER: **wire bonding**

17. In his *Treatise on Harmony*, this composer introduced the notion of the “fundamental bass”. For 10 points each:

[10] Name this French composer from the time of Louis XV, who wrote the operas *Hippolyte et Aricie* and *Castor et Pollux*.

ANSWER: Jean-Philippe **Rameau**

[10] Rameau’s “lyric tragedies” were supported by one side of this aesthetic conflict between French and Italian opera fans of the 1750’s. It was started by a performance of Pergolesi’s *La serva padrona*.

ANSWER: **Querelle des Bouffons** [or **War of the Buffoons**; or **Guerre des Bouffons**; or **War/Quarrel of the Comic Actors**; or **Guerre des Coins**; or **War/Quarrel of the Corners**]

[10] Rameau was also a prolific composer for this keyboard instrument, which works by plucking a string when a key is depressed. François Couperin wrote for this instrument, which was played by Wanda Landowska.

ANSWER: **harpsichord**

18. These coastal ecosystems, which were depicted in many of the landscape paintings of Martin Johnson Heade, were the subject of an energy flow study led by J.M. Teal in Georgia. For 10 points each:

[10] Identify these ecosystems that are often home to dense colonies of cordgrass and that exist in the intertidal zone between land and brackish water or seawater.

ANSWER: **salt marshes** [prompt on “**tidal marshes**”]

[10] Salt marshes are not to be confused with these tropical ecosystems, in which large systems of trees with intricate root meshes, often *Rhizophora*, help filter salt from the water. They’re home to namesake tree-climbing crabs.

ANSWER: **mangroves** [or **mangrove** swamps; or **mangrove** forests]

[10] Cordgrass die-off in salt marshes is similar to the trophic cascades seen in kelp forests, where the hunting of these marine mammals lead to unchecked sea urchin populations. These members of the *Lutrinae* sub-family float on their backs and use rocks to crack open urchins and other crustaceans.

ANSWER: sea **otters** [or **Enhydra lutris**]

19. During this battle, Hitler’s hopes that promoting Friedrich Paulus to field marshal would prevent him from surrendering were dashed. For 10 points each:

[10] Name this World War II battle, in which Soviet forces successfully defended a city on the Volga River named for the Soviet premier, turning the tide of the Eastern front and the war.

ANSWER: Battle of **Stalingrad**

[10] This Soviet commander organized the defenses at Stalingrad and planned the encircling counterattack there. He later led victorious forces at the Battle of Kursk, and personally commanded the final assault on Berlin.

ANSWER: Georgy **Zhukov**

[10] Erich von Manstein oversaw this operation, an attempt by the German 4th Panzer Army to break the Soviet encirclement of the 6th Army. Its failure was followed by the final Soviet assault, Operation Ring.

ANSWER: Operation **Winter Storm** [or Unternehmen **Wintergewitter**]

20. Upon infecting a cell, viruses express Bcl-2 proteins to stop cell death by blocking this process. For 10 points each:

[10] Name this process which may be triggered by BH3-only proteins such as PUMA, eventually leading mitochondria to release cytochrome C and inducing cell death.

ANSWER: apoptosis

[10] Cytochrome C binds to a complex that triggers a cascade of these molecules. These proteases specifically target cysteine and aspartate sites in proteins for cleavage during apoptosis.

ANSWER: caspases

[10] As its name suggests, this protein is an apoptosis inhibitor, which explains why it is expressed at high levels during fetal development and in tumors. Unlike other IAPs, it contains just one BIR domain and lacks a carboxy-terminus RING finger motif.

ANSWER: survivin [or baculoviral inhibitor of apoptosis repeat-containing 5, or BIRC5]

21. A character in this play has a craving for cucumber sandwiches. For 10 points each:

[10] Name this play in which Jack Worthington pursues the hand of Gwendolyn and discovers his aunt is Lady Bracknell after Miss Prism admits to misplacing a baby in a handbag at a railway station.

ANSWER: The Importance of Being Earnest

[10] *The Importance of Being Earnest* was penned by this author.

ANSWER: Oscar Wilde

[10] Alfred Douglas, the friend of Oscar Wilde and addressee of “De Profundis,” was a member of this group of pederastic poets, whose other members included Augustus Montague Summers and John Bloxam.

ANSWER: Uranian school of poetry