

SUBMIT 2014: “sometimes referred to as Groper[citation needed]”

Packet by Dartmouth A and Penn C

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Tossups

1. In this tissue, the proteoglycan phosphacan inhibits cell adhesion to the extracellular matrix protein Ng-CAM. Different cell classes of this tissue can be distinguished by staining for class four intermediate filaments. The cross-linking protein MAP2 localizes to this tissue, which is homogenized then repeatedly cooled and heated to purify tubulin. LFB (*) stains detect damage to lipid-rich cells of this tissue, which can be visualized with cresyl violet because it contains aggregates of ER called Nissl bodies. Beta-interferons are often prescribed for a disease that causes scarring in this tissue and has a relapsing-remitting form. That disease is multiple sclerosis. This tissue is divided into white and grey matter and contains neurons and glia. For 10 points, name this tissue that makes up the spinal cord and brain.

ANSWER: nervous tissue (accept word forms; anti-prompt on “brain” or “spinal cord tissue”)

2. One novel by this author opens with soldiers such as Blondy and Fats escorting a group of nuns off a boat and features a woman whose tongue and eyes were eaten by vultures. In that work by this author, Sergeant Lituma plays Russian Roulette, Adrian Nieves helps a sadistic leper capture a woman called the “Wildflower,” and a harp player named Don Anselmo founds the title (*) brothel in the desert. Another of his novels features a military dictator named Cayo Bermudez and begins with a chapter in which a dachshund is clubbed to death at a corrupt dog pound. In that novel by this author of *The Green House*, Don Fermin’s former chauffeur, Ambrosio, meets with an upper class journalist who asks “At what precise moment had Peru fucked itself up?” For 10 points, name this author of *Conversations in a Cathedral*.

ANSWER: Jorge Mario Pedro Vargas Llosa

3. A series of running sixteenth notes and a switch to D major characterize the switch between themes in this composer’s first sonata. One of this composer’s symphonies in C major is scored for only two trumpets and has two rehearsal versions that occasionally get confused; that is this composer’s first symphony. The title character of one of his symphonic poems is represented by clarinet, horn, and oboe solos that give way to a gong that sounds for her victim, who drowns in the Terek River. This composer of (*) “In Bohemia” and incidental music to *King Lear* also created a piano piece whose 6/8 second movement *Andantino espressivo* gives way to a rapid *Presto furioso* final movement. That composition was inspired by a trip to the Caucasus and subtitled *Oriental Fantasy*. For 10 points, name this Russian composer of *Islamey*, the organizer of The Five.

ANSWER: Mily Alexeyevich Balakirev

4. One episode of this television show sees a lawyer, played by the actor Michael Weston, prove the innocence of a woman accused of killing a weatherman. One character on this show often performs in Civil War reenactments, and had been separated from his wife at the beginning of the series. Another character on this show possesses a “super sniffer,” a very (*) sensitive nose. Regulars on this show include Kirsten Nelson and Timothy Omundson, and this show is somehow returning for an eighth season this year. The main characters work alongside detectives Juliet O’Hara and Carlton Lassiter, and own their own private detective agency. For 10 points, name this USA show where Shawn Spencer pretends to have “the gift.”

ANSWER: Psych

5. This country’s strategic reserve command, the Kostrad, was created for a 1960 invasion, and this country itself was invaded during Operation Product. A. H. Nasution escaped execution during one incident in this

country, the home of the People's Representative Council. This country opposed the formation of its northern neighbor in an undeclared conflict called the (*) Konfrontasi. A massive crackdown on this country's Communist Party in 1965 was prompted by the assassination of six senior military officers by members of the 30 September Movement. One leader of this country advocated five principles called Pancasila, and that leader was succeeded by a leader of the Golkar party who declared the New Order Government and ordered the occupation of East Timor. For 10 points, name this country once run by the dictator Suharto.

ANSWER: Republic of Indonesia

6. One character with this profession attends the Melville-obsessed Westish college. In another novel, the protagonist has to leave this profession after killing a scab named Harold Allen and dropping his infant son Gerald. This profession of Henry Skrimshander and former job of the bum Francis Phelan in *Ironweed* is shared by a man who is cursed at by a dwarf named Otto P. Zipp and punches out Gus Sand's glass eye. To save money, Judge Goodwill Banner sends one member of this profession to die in a maternity ward after he runs into a wall. That man, (*) Bump Bailey, is the rival of a character of this profession who had earlier retired after being shot in the stomach by Harriet Bird. Santiago worries about "Indians" and "Tigers" while thinking about a person of this profession in *The Old Man and the Sea*. For 10 points, name this profession of Roy Hobbs in *The Natural*.

ANSWER: baseball players (accept things like ballplayer or batter; accept more specific answers like "shortstop" or "right fielder")

7. The allylic form of this class of molecules is produced from an electron-deficient alkene in the presence of a nucleophile in the aza-Baylis–Hillman reaction. Triphenylphosphine is commonly used as a reducing agent in the production of this class of molecule in the Staudinger reaction. Molecules containing this functional group have IR spectra characterized by a broad trough punctuated with spikes in the (*) 3300 inverse centimeter region. Quaternary salts of these compounds may be used as phase transfer catalysts. Potassium phthalimide is a reagent used to create them from primary alkyl halides in the Gabriel synthesis. For 10 points, name this functional group with a nitrogen single bonded to alkyl or aryl groups, derived from ammonia.

ANSWER: amines

8. Thomas Tooke presented a petition for this cause, which was championed by the propaganda of William Cooke Taylor. Monckton Milne called Charles Villiers a "solitary Robinson Crusoe" of this cause, and this cause was *opposed* by a meeting at the Freemason's Tavern that resulted in the formation of the CAPS special interest group. George Wilson led an organization that championed this goal. *The* (*) *Economist* was founded to advance this cause, which was also advocated by an association led by John Bright and Richard Cobden. This was the goal of that namesake "League," and this cause was finally accomplished with the Importation Act of 1846. For 10 points, name this cause that advocated the repeal of some protectionist trade laws in Great Britain.

ANSWER: repeal of the Corn Laws (accept anything indicating opposition to the Corn Laws or the Importation Act of 1815)

9. An amusing self-portrait by this artist takes the form of a wooden jug covered with sticky red material, upon which a profile view of his face is carved. This artist dons a brown hat and a matching mustache as he stares at the viewer in another of his self-portraits; in the background of that work is his painting that shows a woman's mother sitting on a bed next to her horrified nude daughter. A woman in a bright orange robe peers down at a breastfeeding woman wearing green in this artist's (*) *Maternity*, and this artist of *Spirit of the Dead Watching* used his time in Pont-Aven to paint three Breton women praying as they witness the crucifixion. For 10 points, name this French artist of *The Yellow Christ*, who painted many scenes in Tahiti.

ANSWER: Paul Gauguin

10. For one commission, this man designed a saucer-shaped art museum that is surrounded entirely by a reflecting pool. This architect used a sinuous façade design for another building, whose sand-colored wooden slats are visible from the outside. In addition to the Niteroi Contemporary Art Museum and the sprawling residential Copan Building, this architect designed a cathedral consisting of four concrete parabolas. That design by this architect was criticized for its outside murals, which mostly depicted its namesake, St. Francis of Assisi, and was part of this architect's (*) Pampulha Project. This architect is most associated with a city in which Juscelino Kubitschek asked him to design his country's National Congress and Supreme Federal Court. For 10 points, name this counterpart of Lucio Costa, an architect known for designing much of Brasília.

ANSWER: Oscar Niemeyer

11. During the Expedition of the Ten Thousand, Sosis led three hundred hoplites from this city, whose lower class, known as the Killichiroi, expelled its ruling Gamoroi. A Deinomenid leader of this city won a battle partly by sending troops to pose as allies from the city of Selinus; that leader was Gelo. Gylippus was enlisted to defend this city, which was besieged by Marcus Claudius Marcellus in 214 BCE. A Corinthian named (*) Timoleon became a ruler of this city that sparked the First Punic War by defeating the Mamertines. This city was once led by Hiero II and won the battle of Himera against Hamilcar I. This city, home to two tyrants named Dionysius, was the main target of an expedition led by Nicias which ended in a crushing defeat for Athens during the Peloponnesian War. For 10 points, name this Corinthian colony, a large city on Sicily.

ANSWER: Syracuse (or Syracusae; or Syrakousai; or Siracusa)

12. In the Aeneid, one of these figures takes the form of Calybe and appears in a dream to Turnus, persuading him to go to war. That one also enchants Queen Amata, making her prevent the marriage of Lavinia to Aeneas. Another one of these figures guards the gate of Tartarus with a whip. These figures struck the horse Xanthus dumb after he predicted the death of his master Achilles. One of them caused (*) Ascanius to kill the stag of Silvia, provoking a war between the Trojans and the Latins. They were created when the blood of Uranus fell onto the earth, and they pursued Orestes to Athens, earning the name the "Venerable Ones." Virgil claims that there are three of these figures, named Alecto, Megaera, and Tisiphone. For 10 points, name these avenging figures of Greek myth, seen as personifications of vengeance.

ANSWER: Furies or Erinyes (accept Eumenides, Semnai, or Dirae)

13. In this novel, the protagonist's mother keeps a volume called "Compleat Fortune-Teller" in her outhouse. A blind woman in this novel is fond of Strut and Phena, two chickens on her fowl farm. One family in this novel has allegedly been haunted by a ghostly coach after a sixteenth century member kidnapped and murdered a woman in it, and the protagonist is disturbed when a rooster crows in the afternoon. Retty Priddle tries to drown herself over one man in this novel who is also loved by (*) Marian and Izz Huett. While working as a dairymaid at Talbothays dairy, one character meets a man who eventually leaves her and moves to Brazil to start a farm. The protagonist of this novel has an illegitimate child named Sorrow and is arrested at Stonehenge after stabbing her rapist, Alec. For 10 points, name this work about the wife of Angel Clare, a novel by Thomas Hardy.

ANSWER: Tess of the d'Urbervilles: A Pure Woman Faithfully Presented

14. This mineral is commonly used in geothermobarometry in petrometry due to its tendency to form easily recognizable phenocrysts in many igneous rocks. Hornblendes sometimes form as an alteration to this mineral, mimicking their crystal shape and making it even harder to distinguish between the two. Its structure consists of (*) single chains of silicon-oxygen tetrahedra. Spodumene is the only lithium containing type of this mineral, and augite is a calcium-rich form of this mineral. This mafic silicate mineral weathers more quickly than amphibole, but more slowly than olivine, and jade is a type of this mineral. For 10 points, name this mineral that, along with olivine, makes up much of the mantle.

ANSWER: pyroxene

15. Hegel said that this term is “the process whereby the spirit discovers itself and its own concept.” A philosophical work wherein free will is rectified with a programmatic society by Vilém Flusser is entitled after the “post” form of this concept. A tract by Kant on the cosmopolitan plan for this concept asserts that “reason develops completely in the species not the individual” and predicts (*) global governing structures such as the United Nations. The “angel” of this concept sees “one single catastrophe piling rubble at his feet” when looking back at the past but is “blown irresistibly” into the future by a storm called progress in a work by Walter Benjamin titled after this concept. For 10 points, name this concept in philosophy, the subject of a series of lectures by Hegel that also names a field of study with writers such as Herodotus and Livy.

ANSWER: history

16. One author who wrote in this language opened one story with the line “We were kids, but good kids” and wrote about Japi, the title loafer, in another work. In a novel in this language, Quinten, the son of Onno, ascends into heaven with the Ten Commandments. This language used by Nescio was used to write a novel in which Saidjah discovers the corpse of his betrothed Adinda; in that work, which features the corrupt Mr. Slimmering, Shawlman brings the manuscript of the title character to (*) Batavus Drystubble. In addition that novel which criticizes colonial policies and is subtitled “the Coffee Auctions,” a work in this language addressed to “Kitty” describes the narrator’s infatuation with Peter and jealousy of her sister Margot. For 10 points, name this language of Harry Mulisch which was used to write Multatuli’s *Max Havelaar* and *The Diary of a Young Girl* by Anne Frank.

ANSWER: Dutch (or Nederlands)

17. This entity is expressed by “speakers alluding to the principles of decency and rectitude to which they fail to adhere” in an essay about translating it by Keith Harvey, who compares its use in the speech of characters in *Strange Landscape* and *The City and the Pillar*. This idea “[turns] its back on the good-bad axis of ordinary... judgment.” The “glorification of character” defines this idea, which “sees everything in quotation marks.” The (*) “pure” and “deliberate” forms of this idea are contrasted in an essay proposing the “spirit of extravagance” and “[dethroning] of the serious” as hallmarks of this sensibility, which is exemplified by Art Nouveau, Greta Garbo and “women’s clothes of the twenties.” For 10 points, name this aesthetic sensibility expressed by the statement, “It’s good *because* it’s awful,” which was outlined in some *Notes* by Susan Sontag.

ANSWER: camp talk (accept word forms; prompt on “kitsch”; prompt on answers about “homosexuality” or equivalents; prompt on “parodic femininity” or similar answers)

18. Two answers required. A citizen of one of these countries was executed in the other for allegedly destroying the freighter *Le Coubre*. An official in one of these countries took the codename AM/LASH to help the other in an assassination plot. One of these countries planned to blame a terror campaign on the other in the crazy false-flag Operation Northwood, which was part of a larger series of plans called Operation Mongoose. Insurgents in one of these countries were aided by the other during the War against the (*) Bandits; that country also planned to kill the other’s leader with a poisoned wetsuit, among other things. One conflict between them involved the Operation Puma airstrike and a landing at Point Zulu. In that incident, one of these countries had Grayston Lynch lead Brigade 2506 in an ill-fated invasion of the other. For 10 points, name these countries, one of which sponsored the Bay of Pigs invasion of the other.

ANSWER: Republic of Cuba and the United States of America (in either order)

19. A prophecy concerning this figure likened him to a “lion’s whelp” and stated, “His eyes shall be red with wine, and his teeth white with milk.” He is known rather infamously for accidentally sleeping with his sister-in-law Tamar, who had disguised herself as a prostitute after her first two husbands died. This fourth son of

Leah masterminded the plot to sell his brother (*) Joseph to a band of Ishmaelites headed towards Egypt, though he later offered his life in return for that of his younger brother Benjamin, who was accused of stealing a silver cup. This figure was the founder of one of the twelve tribes of Israel, and every king of Israel except Saul was a descendent of this man. For 10 points, name this Old Testament biblical figure, the son of Jacob from whom Jesus drew his genealogy and the namesake of an ancient Jewish state that lay south of the Kingdom of Israel.

ANSWER: Judah

20. **Schwinger worked out a model of this operator by considering it as two uncoupled harmonic oscillators and showed that combinations of them satisfy the same commutation relations as this quantity. One theorem states that matrix elements of tensor operators in eigenstates of the operator of this quantity can be written as a coefficient term times a term independent of this quantity; that is the Wigner–Eckart** (*) theorem. The isotropy of space guarantees conservation of this quantity, and this quantity is the generator of rotations. Spherical harmonics are eigenstates of the operator of this quantity which is time integral of torque. For 10 points, name this quantity given by angular frequency times the moment of inertia, one type of which is spin.

ANSWER: angular momentum (accept L; accept J; do not accept or prompt on “momentum” or “linear momentum”)

21. **The relict agnurognathid pterosaur *Dendrorhynchoides* and the dinosaur-eating mammal *Repenomamus* are some of the fossils from this country’s Lower Cretaceous Jehol biota. Dinosaurs from this country include *Euhelopus*, *Caudipteryx* and *Mamenchisaurus*. The Zomia massif includes the southwestern mountains of this country, where the tiny four-winged dromaeosaurid *Microraptor* and the early tyrannosaurid *Dilong* were discovered. This country is the location of the loess plateau.** (*) In this country, stress between the Amurian plate and the Eurasian plate caused a 1976 earthquake in Tángshān. For 10 points, name this country where *Sinosauropteryx* was discovered, the location of the Màoitiānshān Shale in Chéngjiāng.

ANSWER: People’s Republic of China

Bonuses

1. This curve on survivorship graphs starts out steep but quickly flattens out. For 10 points each:

[10] Name this curve followed by *r*-selected species. Organisms with this kind of survivorship curve have high mortality early in life but live for a relatively long time after reaching adulthood.

ANSWER: **type III** survivorship curve

[10] In survivorship tables, an individual's "potential" value for this quantity is represented by m_{x_i} , which equals the reserve of vitellogenic oocytes. The "realized" form of this quantity, $m_{x_i} \times l_{x_i}$, equals the number of offspring produced.

ANSWER: **fecundity** (prompt on "fitness"; prompt on answers related to reproduction)

[10] Diseases are hard to eradicate from populations if they don't take effect until after an organism's peak fecundity. This late-onset autosomal dominant chorea is caused by a trinucleotide repeat expansion of glutamine codons, and results in uncontrollable jerky movements.

ANSWER: **Huntington's** disease

2. In this play, John says that higher education is "something-other-than-useful" and recalls someone telling him that the rich copulate less often than the poor, but take off more clothes when they do. For 10 points each:

[10] Name this play in which Carol accuses her professor John of sexual harassment and attempted rape after he offers to raise her grade to an "A" if she keeps meeting with him in his office to help her "understand."

ANSWER: **Oleanna**

[10] In this other play by the author of *Oleanna*, Teach hits Bobby over the head with the "dead pig sticker" after Fletcher fails to arrive at Don's Resale Shop, thus foiling the group's plan to rob a customer's coin collection.

ANSWER: **American Buffalo**

[10] This American playwright of *Sexual Perversity in Chicago* wrote *Oleanna* and *American Buffalo*.

ANSWER: David Alan **Mamet**

3. Black Wednesday, when the pound sterling was taken off of the ERM, occurred during this prime minister's term. For 10 points each:

[10] Name this Conservative prime minister who frequently warred with Neil Kinnock. The Treaty of Maastricht was signed during his term.

ANSWER: Sir John **Major**

[10] John Major was followed by this Labour Prime Minister 1997. Serving until 2007, this man's unpopularity grew after sending British troops to Iraq.

ANSWER: Anthony "Tony" Charles Lynton **Blair**

[10] Blair had a good relationship with this long time Lib Dem leader. He oversaw the merger of the Social Democrats and Liberal Party and was succeeded by Charles Kennedy in 1999.

ANSWER: Jeremy "Paddy" **Ashdown**

4. Among this god's possessions is Skidbladnir, a ship that can be folded up and stored in one's pocket. For 10 points each:

[10] According to the *Grímnismál*, Álfheim was given to this fertility god as a present for cutting his first tooth. This twin brother of Freya rides the boar Gullinbursti.

ANSWER: **Freyr**

[10] Frey is left without a weapon after giving away his sword to marry Gerd. Thus, he uses one of these objects to slay Beli.

ANSWER: an **antler**

[10] Frey and Freya are the children of this ruler of Nóatún. In the *Lokasenna*, Loki states that the daughters of

Hymir urinated in this god's mouth when he was taken hostage during the Æsir-Vanir War.

ANSWER: Njörðr (or Njör)

5. This type of wine's varieties include Shiraz, Cabernet Sauvignon and Pinot noir. For 10 points each:

[10] Name this type of wine produced from dark grapes. The "French paradox" of low CHD incidence is sometimes explained by consumption of this type of wine, which is usually paired with heavier foods than white wine.

ANSWER: red wine (accept vin rouge or vino rosso or other equivalents from the languages of wine-loving countries)

[10] The saignée method is used to make this third "color" of wine, the primary type produced in Provence. White Zinfandel is a somewhat low-quality example of this type of wine, which is often made from Mourvèdre grapes.

ANSWER: rosé wine (accept blush or vino rosato or other equivalents; prompt on "pink")

[10] Many dessert wines are produced from this family of grapes, which includes Hamburg and Blanc à Petits Grains. These floral-smelling grapes come in many colors and are used to produce the Piedmontese Asti spumante.

ANSWER: Muscat grapes (accept Moscato or Moscatel or other equivalents)

6. One character in this novel attempts to discover who killed his uncle by closely examining the nostrils of several illustrated horses. For 10 points each:

[10] Name this novel about several workshop miniaturists who work for Sultan Murat III and must solve the murder of Elegant Effendi.

ANSWER: My Name is Red (or Benim Kırmızı)

[10] *My Name is Red* is a novel by this Turkish author of *Snow* and *The Museum of Innocence*.

ANSWER: Orhan Pamuk

[10] This other Turkish author and frequent Nobel Prize candidate wrote *The Drumming-Out* and described a boy who escapes the abusive Abdi Agha and joins a roaming band of outlaws in *Memed, My Hawk*.

ANSWER: Yashar Kemal

7. The Chow test is a specific form of this test used in econometrics. For 10 points each:

[10] Name this kind of test used to compare statistical models. Its has its namesake distribution under the null hypothesis, and it is the basis ANOVA.

ANSWER: F-test

[10] An f test can be used to test if two populations with the same mean are also equal in this value, the squared of standard deviation.

ANSWER: variance

[10] F-tests are no longer robust when this condition is violated, and thus have a higher type I error rate. Under this condition, variance is constant and errors are not correlated with the explanatory variable.

ANSWER: homoscedasticity (accept on homogeneity of variance; do not accept "heteroskedasticity")

8. Answer the following about the world's third-most famous Renaissance. For 10 points each:

[10] A "Renaissance" of scholarship occurred during the rule of this Frankish dynasty, whose name derives from that of the victor at the Battle of Tours. Its rulers included Pepin the Short and Louis the Pious.

ANSWER: Carolingians (or Carolings; or Carlovingians; or Karlings)

[10] Charlemagne invited this student of Archbishop Ecgbert to his court and made him Abbot of Tours. The letters of this English scholar to Hygbald are a major source regarding the Viking raid on Lindisfarne.

ANSWER: Alcuin of York (accept Ealhwine; accept Albinus; accept Flaccus)

[10] One of the many churches built during the Carolingian Renaissance was an abbey named for this saint, a victim of the Decian persecutions who apparently kept walking and talking after his head was cut off.

ANSWER: Saint Denis of Paris (accept Dionysius but not "Dionysius the Areopagite")

9. The central characters of this book discuss the possibility that the moon is inhabited and conclude that the universe contains many unknown planets lit up by the stars. For 10 points each:

[10] Name this early Enlightenment text framed around the discussions of a marquise and philosopher during six evenings of stargazing. This book introduced scientific ideas to a popular audience, particularly women.

ANSWER: *Conversations on the Plurality of Worlds* (or *Entretiens sur la pluralité des mondes*)

[10] *Conversations on the Plurality of Worlds* popularized the Copernican view that this celestial body is at the center of our planetary system, in contrast the erroneous geocentric view.

ANSWER: the Sun (accept Helios; accept Sol; accept the names of sun gods such as Tonatiuh; accept heliocentrism or word forms)

[10] *Conversations on the Plurality of Worlds* was written by Bernard Le Bovier de Fontenelle, who argued that mechanics is incompatible with this position, a Malebranche-advocated position which maintains that God is the one true cause of all events.

ANSWER: occasionalism (accept word forms)

10. This piece is transposed to C-sharp minor in an arrangement by Leopold Godowsky, who composed dozens of “studies after” its composer. For 10 points each:

[10] Name this piece, in which a dominant seventh chord builds up to the main theme. This piece requires the left hand to constantly play sixteenth notes, as well as numerous difficult harmonic minor scales.

ANSWER: Revolutionary Étude (or Étude on the Bombardment of Warsaw; or Étude Op. 10, No. 12 in C minor)

[10] This 138-measure-long D-flat major piece by the same composer as the *Revolutionary Étude* is sometimes named after a “little dog” that supposedly inspired its composer.

ANSWER: Minute Waltz (or Waltz in D-flat major, Op. 64, No. 1)

[10] The *Revolutionary Étude* and *Minute Waltz* were both composed by this Polish-born French composer.

ANSWER: Frédéric François Chopin

11. These beings were created from smokeless fire, in contrast to humans and angels, which were made out of clay and light, respectively. For 10 points each:

[10] Name these beings exemplified by Iblis, who became known as Shaytan after his expulsion. The seventy-second sura discusses these beings, which include the *qarīn* that tempt individual people.

ANSWER: jinn (or genies)

[10] The suing of jinn is occasionally taken seriously in Saudi Arabia, where Islamic law, also known by this term, is implemented. It is considered the infallible law of God, in contrast to human interpretations, or *fiqh*.

ANSWER: sharī‘ah

[10] If you want to sue a jinn for damages, you can go before one of these Islamic judges, who will hopefully laugh you out of the courtroom. These judges are responsible for applying *fiqh* and the *fatwas* of muftis.

ANSWER: qāḍī

12. The titular character of this work dies when he attempts to call in reinforcements and blows a horn so hard that it causes his temples to explode. For 10 points each:

[10] Name this really old French heroic poem based on the Battle of Roncevaux Pass.

ANSWER: Song of Roland (or Chanson de Roland)

[10] This character is Roland’s spiteful stepfather. He betrays Roland’s position to the army of Marsilla, allowing Marsilla’s army to ambush the rear guard of Charlemagne’s army.

ANSWER: Ganelon

[10] This character is the King of Babylon who meets Charlemagne’s army after the defeat of his vassal Marsilla’s men. Charlemagne is saved by the angel Gabriel when this man lays a blow on his head after they meet in battle.

ANSWER: Baligant

13. Loránd Eötvös tested one statement central to this theory by suspending a rod with two weights made of different metals on a thread. For 10 points each:

[10] Name this theory which describes gravity as warping of spacetime by mass. The equivalence principle is central to it.

ANSWER: general theory of relativity (accept GR; prompt on partial answer)

[10] The equivalence principle may be interpreted as the statement that it's impossible to distinguish a gravitational field from this kind of reference frame.

ANSWER: accelerating reference frame (prompt on "non-inertial"; do not accept "inertial")

[10] The left hand side of Einstein field equations may be written as big G mu nu plus lambda times little g mu nu, where little g is this tensor. In the flat space of special relativity, it's diagonal, with entries -1 , 1 , 1 , and 1 .

ANSWER: metric tensor

14. Many of the individual sculptures in *The Gates of Hell* were expanded into pieces of their own. For 10 points each, name some of them:

[10] Also known as the Poet, this is perhaps Rodin's most famous work. In *The Gates of Hell*, this piece is found above the door panels. Many believe it may be Rodin himself.

ANSWER: *The Thinker* (also accept *Le Penseur*)

[10] Rodin wanted to frame *The Gates of Hell* with these two biblical figures. He received the funding but was unable to get the woman's shape right, so he tossed the idea.

ANSWER: Adam and Eve (accept in either order)

[10] This sculpture was originally titled *Francesca da Rimini* after the woman found in the work. The other person in this work is Paolo Malatesta.

ANSWER: *The Kiss*

15. This term was originally coined to describe the emergence of prophets like the Seneca leader Handsome Lake. For 10 points each:

[10] Give this specific term used by Anthony Wallace to describe processes that respond to stress and "cultural distortion" and create a "new steady state." This term describes movements that seek to alter the "mazeway."

ANSWER: revitalization movements (anti-prompt on nativistic, vitalistic, revivalistic, millenarian, messianic movements, or cargo cults (which are subcategories delineated by Wallace); prompt on "new religious movements" or "NRMs," reminding people that the specific term used by Wallace is required)

[10] One classic revitalization movement analyzed by Wallace was the Vailala Madness, a cargo cult from this island. This island's Chambri, Arapesh and Mundugumor peoples were studied by Reo Fortune and Margaret Mead.

ANSWER: New Guinea (accept Irian or Papua)

[10] Wallace also cited this 1890 revitalization movement founded by Wokova. As part of this movement, many Lakota wore allegedly bulletproof shirts that unfortunately did not prevent the Wounded Knee Massacre.

ANSWER: Ghost Dance (or Nanissáanah; prompt on "circle dance")

16. This conflict was partly prompted by one nation's fears that another would stage an invasion of India. For 10 points each:

[10] Give this name for the strategic rivalry for supremacy in Central Asia between Britain and Russia during the late nineteenth century.

ANSWER: The Great Game

[10] The Great Game resulted in sparring over influence in Iran and this other country, later invaded by the Soviet Union in 1979. This country was often referred to as the Kingdom of Kabul while dominated by the Durrani confederacy.

ANSWER: Islamic Republic of Afghanistan

[10] The creation of this line, named for a British diplomat, effectively created a buffer zone between Britain and

Russia in Asia. This line forms the de facto border between Afghanistan and Pakistan.

ANSWER: **Durand** Line

17. In this painting, a teal-clad Mary rests one hand on a chair draped with a pink cloth while opening a box containing the Magi's gifts. For 10 points each:

[10] Name this painting that depicts Jesus stretching his arms upward in front of a rack of carpentry tools while standing amid wood shavings. This painting's title comes from the premonition of the crucifixion it contains.

ANSWER: *The **Shadow of Death***

[10] *The Shadow of Death* was painted by this artist of *The Finding of the Saviour in the Temple* and the satirical *Miracle of the Holy Fire*. He also depicted Jesus knocking on a door in *The Light of the World*.

ANSWER: William Holman **Hunt**

[10] Along with John Millais and others, William Holman Hunt belonged to this group of 19th artists which rejected the formalism imposed on art by the Renaissance.

ANSWER: **Pre-Raphaelite** Brotherhood (or **PRB**)

18. The Battle of Island Number Ten occurred as part of the implementation of this plan. For 10 points each:

[10] Name this plan cooked up by Winfield Scott, which involved surrounding the Confederacy by sea and cutting it in half by controlling the Mississippi river.

ANSWER: **Anaconda** Plan

[10] A major step in the Anaconda Plan was capturing this key Mississippi city. Its commander, John C. Pemberton, surrendered to Grant on July 4, 1863, supposedly causing this city to not celebrate the 4th of July until 1945.

ANSWER: **Vicksburg**

[10] At the same time as the Siege of Vicksburg, this Confederate commander conducted his namesake raid into Indiana and Ohio. He won at the Battle of Corydon but was captured at Salineville, after which he used an air shaft to escape from the Ohio Penitentiary.

ANSWER: John Hunt **Morgan**

19. One section of this essay analyzes an italicized section of Gray's "Sonnet on the Death of Mr. Richard West" to make the point that well written prose is no different from good poetry. For 10 points each:

[10] Name this essay expounding its authors' views on the composition of good poetry. It was included in a collection that contained "We Are Seven" and "The Idiot Boy."

ANSWER: the **preface** to **Lyrical Ballads**

[10] The preface to *Lyrical Ballads* was written by this Romantic poet of the Lucy poems, who collaborated with Samuel Taylor Coleridge on *Lyrical Ballads*.

ANSWER: William **Wordsworth**

[10] This later sonnet by Wordsworth claims "We have given our hearts away, a sordid boon!", lamenting the growing influence of materialism as a result of industrialization.

ANSWER: "The **World is Too Much With Us**"

20. Ions of these metals are often brightly colored due to the promotion of electrons unfilled d-orbitals. For 10 points each:

[10] Name these metals in the d-block of the periodic table, examples of which are copper, gold, and silver.

ANSWER: **transition** metals

[10] The formation of tetraamminecopper(II) two plus from solvated copper ions upon the addition of concentrated ammonia is an example of this type of reaction which is often accompanied by color change.

ANSWER: **ligand exchange** reaction or **ligand substitution** reaction (prompt on partial answer)

[10] This effect common in six coordinate copper(II) complexes describes distortion of a molecule to remove degeneracy in its electron ground state.

ANSWER: **Jahn–Teller** effect

21. During one crisis in this country, the head of the BDA was kidnapped after his car was forced to stop by an empty baby carriage. For 10 points each:

[10] Name this country which was terrorized by the Red Army Faction during the so-called “Autumn” of 1977.

ANSWER: **West Germany** (or **Federal Republic of Germany**; or **Bundesrepublik Deutschland**; prompt on “Germany” or “Deutschland”; do not accept “East Germany”)

[10] Those events occurred during the administration of Helmut Schmidt, who was preceded by this other Social Democratic Chancellor. He advocated Ostpolitik and resigned after one of his advisors was outed as a Stasi agent.

ANSWER: Willy **Brandt**

[10] Brandt’s Ostpolitik superseded this less friendly doctrine, under which West Germany would not maintain relations with any country that recognized East Germany.

ANSWER: **Hallstein** Doctrine