

1. An early account of the construction of this project was written by Henry Jephson. An early design for this project was created by Frank Forster, but the committee responsible for approving it was divided and he died before it could be built. The construction of this project was facilitated by the Ordnance Survey and by the consolidation of multiple authorities into a single board under the Metropolitan Management Act. This project was strongly advocated by Edwin Chadwick, but he came into conflict with the man who eventually designed it over the use of materials; that man designed a system of intercepts that relied on four large pumps and was divided into the Northern, Southern, and Western districts, the latter of which covered low-lying Fulham and Hammersmith. The construction of this project was approved partly as a consequence of the Great Stink of 1858, and it was overseen by the man credited with its design, the chief engineer of the Metropolitan Board of Works, Joseph Bazalgette. For 10 points, identify this public works project undertaken to improve the sanitary conditions near the Thames by providing a drainage system for the surrounding city.

ANSWER: London sewer system [accept anything that mentions London and sewage disposal, prompt on partial answers]

2. One character in this play is a secretary named Mr. Roger who is valued because he can speak English, while another character becomes the head of an orphanage in order to get out of the city. Two major characters in this play are first encountered playing a game in Mrs. Duranty's cafe, and one of those characters is encouraged by both Sutter and Annette to present one of his inventions. The main character of this work invents a device that depicts a rocket heading towards the moon as a way of visualizing a game score after being told by the "Old Man" that the "Tilt" mechanism has already been invented. This play concerns the main character's attempts to become rich through improving the pinball machines made by "the Corporation" and takes its name from the game being played by Victor and Arthur in its final scene. For 10 points, identify this anti-capitalist drama, the best-known play of Arthur Adamov.

ANSWER: Le Ping-Pong

3. At one point in this work, its performer asks "Who is this really?" which question is answered by "a voice" saying "this is the hand/ the hand that takes." The release of smoke accompanies the question "Smoking or non-smoking?" in this work, which release is followed by a recitation of the postal service motto. One section of this piece shows the singer's mouth illuminated by a red light as the words "you don't know me/ but I know you" are sung, just after an invitation to leave a message on an answering machine. This work was inspired by an aria from its dedicatee's opera *Le Cid*, which resulted in its being subtitled "For Massenet," and concludes with a plea to "hold me, Mom... in your automatic arms... your petrochemical arms... your military arms." The main theme of this work consists of the sound "Ah" repeated on a loop, and its iconic imagery includes the artist's fist illuminated by a projector as she sings, through a vocoder, the title opening lines of this work, which also address a judge, and "mom and dad." For 10 points, identify this 1981 performance art piece by Laurie Anderson.

ANSWER: O Superman (For Massenet)

4. This work's title character marries the grandniece of William Howard Taft, and loses his eye while serving in the Army Corps of Engineers, which leads to him being known as "the cyclops." A character in this novel is working on her own novel about working-class teenagers in a wealthy resort community, and publishes children's literature under the pen name "Polly Madison." In a potato barn, this novel's narrator keeps a 64-foot wide painting titled "Now It's the Women's Turn," which contains over 5,000

people and depicting where the narrator was “when the sun came up the day the Second World War ended in Europe.” The narrator shows that painting to Circe Berman, who moves in with this novel’s title character after the death of his second wife to research the aforementioned book on teenagers in the Hamptons, and the title of this book refers to the narrator’s admonition to Circe to stay out of the barn. For 10 points, identify this novel by Kurt Vonnegut, an “autobiography” of the Abstract Expressionist painter Rabo Karabekian.

ANSWER: **Bluebeard**

5. One part of this text claims that “to take a stand, to be passionate” is the “element” of the figure who is the subject of this work, and whose honor this work links to “personal responsibility.” That passion is later characterized in this work as “matter-of-factness,” to contrast it with a concept that Georg Simmel called “sterile excitation.” This work concludes by quoting Shakespeare’s sonnet 102, and argues that “not summer’s bloom lies ahead of us, but rather a polar night of icy darkness and hardness,” and compares its titular subject to the “strong and slow boring of hard boards.” This text opens by claiming that the foregoing “will necessarily disappoint you in a number of ways,” and outlines three “inner justifications” or “basic legitimations of domination,” which include the traditional, the legal, and the charismatic, which is linked to the second title concept of this text. Famous for its thesis that a state is a “human community that successfully claims the monopoly of the legitimate use of physical force within a given territory,” for 10 points, identify this essay about the title human activity, written by Max Weber.

ANSWER: **Politics as a Vocation** or **Politik als Beruf**

6. Ross Harrison's experiments with one member of this class lent experimental support to the concept of the morphogenetic field. The juvenile form of another member of this class is commonly matured with Steinberg's solution. Shortly after fertilization, the eggs of several members of this class display a grey crescent due to cortical rotation, which was first observed in its *Rana* genus. The standard reference for the developmental stages of that organism in this class is a book of Nieuwkoop and Faber. That organism was the subject of Spemann and Mangold's organizer experiment. Due to its shorter reproductive time, the *tropicalis* species has recently supplanted the *laevis* species of a genus in this class. For 10 points, identify this class that includes the model organisms *Ambystoma mexicanum*, also known as the axolotl, and *Xenopus laevis*, also known as the African clawed frog.

ANSWER: **amphibians**

7. Ferenc David was an outstanding Transylvanian exponent of this religious doctrine, which he publicized, together with his teacher Giorgio Biandrata, in *Two Books on the False and True Knowledge*. John Biddle's *Twelve Arguments Drawn Out of the Scripture* was a notable work of advocacy for this religious doctrine in 17th-century England. In 1841, the deliver of the sermon *A Discourse on the Transient and Permanent in Christianity* by Theodore Parker caused a rift among adherents of this religious doctrine due to Parker's denial of the factuality of Biblical miracles. An exposition of this religious doctrine was delivered in a sermon on this type of Christianity at the ordination of the Reverend Jared Sparks by William Ellery Channing, a major American proponent of this religious view. For 10 points, identify this religious doctrine which denies the multiplicity of the Godhead, and which in some Christian denominations is combined with universalism.

ANSWER: **Unitarianism** or **anti-trinitarianism** [do not accept “Unitarian Universalism”]

8. The Car-Parrinello method typically uses the plane-wave type of these things, which are often used when finding the Pulay force. Counterpoise correction can be used to correct the namesake superposition error of these things that arises when studying intermolecular reactions. A class of these things designed for post-Hartree Fock calculations was developed by Dunning, et al. and is termed

correlation-consistent. These things can be improved by including a polarization function with a higher angular momentum number, l . The linear combination of a contracted function with a larger ζ and a diffuse function with a smaller ζ forms their double zeta type. The split-valence type of these things treats the core with a minimal one and the valence with an extended one. Although it has nothing to do with NMR, Pople notation is used to describe them. The most common minimal example of these things uses three Gaussian functions to represent a Slater-type orbital and is abbreviated STO-3G. For 10 points, identify these sets of functions in computational chemistry used to build molecular orbitals.

ANSWER: **basis sets** [or **basises**; or **bases**]

9. One dissent in this case based the outline of its argument on Hugo Black's opinion in the 1964 case *Sears, Roebuck & Co. v. Stiffel Co.* The other dissent in this case argues for a three-pronged test for "a lack of rational support," for the statute in question, the first prong of which consisting of determining whether the benefits bestowed are primarily private rather than public. Those dissents were authored by Justices Stevens and Breyer respectively. Writing for the seven-member majority, Ruth Bader Ginsburg rejected a First Amendment challenge to the statute in question, and noted that the time period in question had been chosen to match that of European statutes, rather than to enact perpetual extensions. The plaintiffs in this case were represented by Lawrence Lessig, who argued that retroactively extending coverage to works not yet in the public domain under the Copyright Term Extension Act violated the Constitutional requirement that copyright last for "limited times." For 10 points, identify this Supreme Court case which upheld the constitutionality of the aforementioned Act, and named George W. Bush's then-Attorney General as defendant.

ANSWER: **Eldred** v. Ashcroft [prompt on "Ashcroft"]

10. This philosophy department was for 25 years the home of Tim Maudlin, a philosopher of physics who authored the book *Quantum Non-Locality and Relativity*. To what must surely be a great embarrassment to everyone associated with this philosophy department, from 1990 until 2005 it was home to the author of *The Mysterious Flame*, noted mystic and sexual harasser Colin McGinn. The co-author with Ted Warfield of the book *Mental Representations*, Stephen Stich, currently teaches at this department, whose other current members include Brandon Fitelson and Ernest Sosa. Another member of the philosophy department at this institution is a notable collaborator of Zenon Pylyshyn and an advocate for the representational theory of mind, according to which thinking consists of syntactic operations over representations in a language sometimes called "mentalese." For 10 points, identify this American philosophy department, famously home to Jerry Fodor.

ANSWER: **Rutgers**, The State University of New Jersey

11. In a 1966 paper, Kadanoff calculated these quantities using the block-spin method. An article in which these quantities were calculated "in 3.99 Dimensions" was written by Wilson and Fisher, who calculated these quantities for the generalized Ising model using the renormalization group approach. According to the Griffiths hypothesis, these quantities depend only on the dimension of the system, the interaction range, and the spin dimension, and therefore shared values of these quantities among systems define a universality class. These quantities control the fluctuations of the order parameter in the vicinity of their namesake type of behavior, and examples of them include the α and δ that control the behavior of the heat capacity and magnetic susceptibility near the Curie point. For 10 points, identify these quantities which characterize the power-law behavior of thermodynamic quantities during second-order phase transitions.

ANSWER: **critical exponents** or **critical index** [or **indices**]

12. The preface to this work mentions the removal of 14 lines on Pope that had been written by a friend

of the poet, and in that preface, the author declares that he will be “amply satisfied” by “merely bruising the head of the serpent.” One section of this work describes a “scribbling crew” each of whom “spurs his jaded Pegasus apace,” and a later stanza asks “Why slumbers Gifford?” before entreating him to arise and “Make bad men better, or at least ashamed,” in a section dedicated to those this work’s author felt were unjustly ignored. This poem was partly a reaction to a negative review by Henry Brougham of its author’s first collection, *Hours of Idleness*, and this work itself, including its rhyming couplet scheme, is partially inspired by Pope’s *Dunciad*. Robert Southey is called a “Ballad-monger,” in this poem, which also singles out as a “stale romance” Walter Scott’s *Marmion*, and calls Coleridge “the bard who soars to elegize an ass.” For 10 points, identify this satirical response to Edinburg-based critics, published anonymously in 1809 by Lord Byron.

ANSWER: **English Bards and Scotch Reviewers**: A Satire

13. This ruler’s introduction of the hereditary titles of duke and marquess as rewards for those loyal to him resulted in his acquiring the sobriquet, “He of the largesse.” This ruler married his daughter Eleanor to Charles III of Navarre and after winning his highest position, he defended his throne against the claims of John of Gaunt. During a civil war in which this ruler commanded one side, his partisans repeatedly slaughtered Jews, whom his opponent had favored, and this ruler’s greatest military triumphs were assisted by Bernard du Guesclin. Although this ruler lost the Battle of Najera to forces commanded by his half-brother and Edward the Black Prince, he would later gain revenge by capturing that half-brother at the Battle of Montiel. For 10 points, identify this illegitimate son of Alfonso XI, who after killing his half-brother Pedro the Cruel assumed the throne of Castile and founded a namesake house that ruled it until 1504.

ANSWER: **Henry II** or **Henry of Trastamara** or **Henry the Bastard**

14. This man remarked to Ingolf Dahl that the sound of the saxophone was like a “pink slimy worm” when he heard of Dahl’s plan to write a concerto for it. One of this composer’s works is bookended by two “dirge-cansons” featuring a quartet of trombones, and is based on a five-tone row. That work is a setting of “Do not go gentle into that good night” and is called *In Memoriam Dylan Thomas*. He scored for a wind band unsurprisingly devoid of saxophones in his *Symphonies of Wind Instruments*, and added cellos and basses – and still no saxophones – for a work that also includes a choir and begins with a namesake E-minor chord. In an orchestral work by this composer of the *Symphony of Psalms*, six solo violas play the theme of the “mystic circles” movement, and a repeated crescendoing brass motive culminates in an 11/4 bar leading into the “Glorification of the Chosen One”. For 10 points, name this composer of *The Rite of Spring*.

ANSWER: Igor **Stravinsky**

15. This figure is depicted completely covered with hair and surrounded by six angels in a wooden sculpture created for the Munsterstadt Altarpiece by Tilman Riemenschneider. This figure was depicted naked and reclining on a rock in a grotto in a painting by Jules Joseph Lefebvre, and in a sculpture by Antonio Canova, this figure kneels with upturned palms next to a skull. Tintoretto depicted this figure reclining under a tree and reading a book in his *sala terrena* for the Sculoa Grande di San Rocco, and both the book and the skull are common attributes accompanying this figure in depictions. In a painting by Titian, this figure is clad in red and white robes and reaches her hand towards a man who angles his body away from her, and this figure was famously depicted with her hands pressed together in penitence in a wooden Donatello sculpture. For 10 points, identify this Biblical character, traditionally depicted together with the resurrected Jesus in “Noli mi tangere,” scenes.

ANSWER: Mary **Magdalene** [prompt on “Mary”]

16. One man with this surname was the namesake of legislation whose repeal was demanded by one side of the combatants in the Three Years' War. Troops loyal to another man with this surname were defeated at the Battle of Tecuac, leading that man with this surname into exile. The deposition of that man with this surname was earlier demanded by his successor in a statement called the Plan of Tuxtepec under the slogan "No Reelection!" Another man with this surname drafted a law while serving which required the Catholic Church to divest itself of all lands not being used for religious purposes; that man served as finance minister to Benito Juarez, while his brother succeeded Juarez as president and was himself deposed by Porfirio Diaz. For 10 points, identify this common surname of brothers Sebastian and Miguel, both prominent Mexican liberals of the 19th century.

ANSWER: **Lerdo de Tejada**

17. One work by this writer is an essay about a trip to a New York market and describes the intricacies of measuring out produce; that essay is titled "Giving Good Weight." Another of this writer's works is divided into sections titled "A Mountain," "An Island," and "A River," and describes the efforts of conservationist David Brower. That book is titled *Encounters with the Archdruid*. This writer first came to prominence with the publication of *A Sense of Where You Are*, his book-length study of Bill Bradley, the future Knicks player and senator, at the time when Bradley was playing basketball at Princeton, which this author also attended and where he currently lives. This writer is most famous for his travelogues and books about nature, such *Coming into the Country* about his travels in Alaska, and his geological history of North America, *Annals of the Former World*, which won him a Pulitzer. For 10 points, identify this American non-fiction writer.

ANSWER: John Angus **McPhee**

18. Aetolus, the son of Endymion and king of Elis, was exiled after accidentally killing Apis with one of these objects. After bringing one of these objects belonging to their mother to the temple of Hera, Biton and Cleobis are granted the best gift possible to mortals, which is to die in their sleep. Before he finds one of these objects that he can use without breaking, Cuchulain destroys twelve of these. Amphytrion taught the young Heracles how to use these objects, one of which was given by Poseidon to Idas and which was used by Idas to abduct Marpessa. Hippodamia was offered by her father Oenomaus as a prize for winning a contest involving these objects; that contest was won by Pelops, who bribed Myrtilus, the operator of one of these objects. After catching one of these things on fire, Phaeton is struck by Zeus' lightning bolt while using one of these objects belonging to his father Helios and plummets to the earth. Symbolized by the constellation Auriga, for 10 points, identify these objects which have wheels and are yoked to horses.

ANSWER: **chariots**

19. One work by this poet contains a section in which the Messiah comes across the carcass of a dog with spectators gathered around it, whereupon he chides them for fearing death. That work was dedicated to Bahram Shah, and contains an introduction describing experiences this poet had during solitary vigils, a poetic device known as *khalvat*. Another work by this poet details the love of the poet Qays for a Bedouin girl, and is titled "Majnun and Layla." A notable illustrated manuscript of this poet's major work was produced for emperor Akbar, and is now housed in the British museum. That work by this poet consists of five narrative poems in the *masnavi* double-rhymed verse style, and include a philosophical discourse titled "The Treasury of Secrets," as well as the "Eskander-nameh," a romance about Alexander the Great. For 10 points, identify this Persian romantic poet of the late 12th century, best known for his collection, the *Khamsa*.

ANSWER: **Nizami** Ganjavi

20. A commonly used metric for evaluating the success of this process is the BLEU score. Brown et. al. developed IBM's Models 1, 2, 3, 4, and 5, in increasing degree of complexity, for performing the alignment necessary to carry out this process. The decoding step in this process consists of finding the source that best matches the target, and stack-based decoders for this process typically function by generating a hypothesis, extending it, and picking the hypothesis with the highest score. This process generally proceeds by Bayesian expectation maximization methods in which a source sentence is found that maximizes the posterior probability of the source given the target sentence. For 10 points, identify this process in which a computer is given a word or phrase in one language and produces its equivalent in another.

ANSWER: machine **translation** [accept any answer that indicates that the translation is being done automatically]

1. This man succeeded Alcala Zamora twice, first as prime minister, and again as president, in which capacity he was powerless to prevent the outbreak of civil war. For 10 points each:

[10] Identify this Spanish politician, a member of the Republican Action party who was instrumental in drafting the anticlerical laws of the new Spanish constitution in 1931.

ANSWER: Manuel **Azana** y Diaz

[10] Azana was one of the signatories of Pact of San Sebastian, which called for the abdication of this Spanish monarch, who left the country in 1931 and never returned.

ANSWER: **Alfonso XIII**

[10] This socialist served as Azana's prime minister and minister of war during the first two years of the war, after which he was replaced by Juan Negrin.

ANSWER: Francisco **Largo Caballero**

2. At the end of this film, the title character fires a cannon off a barge into the jungle, and imagines taking Mexico away from Cortes and marrying his own daughter, with whom he will found "the purest dynasty the earth has ever seen." For 10 points each:

[10] Identify this film whose title character leads a doomed expedition down the Amazon river.

ANSWER: **Aguirre**, the **Wrath of God** or **Aguirre, der Zorn Gottes**

[10] *Aguirre, Wrath of God* was directed by this German director, with Klaus Kinski in the title role.

ANSWER: Werner **Herzog**

[10] Kinski was one of the recurrent actors in Herzog's films; another was Bruno S., who played the title role in *The Enigma of Kaspar Hauser*, as well as in this Herzog film about the title vagabond who leaves Berlin for Wisconsin.

ANSWER: **Stroszek**

3. Resilience refers to the maximum perturbation that can be taken without causing a shift to one of these and processes that create them include facilitation, competition, and overexploitation. For 10 points each:

[10] Identify this concept that can be roughly defined as the different stable configurations of a community or ecosystem can adopt for given environmental conditions.

ANSWER: **alternative stable states** [or **ASSs**; or **alternate stable states**; or **alternative stable equilibria**]

[10] Ecosystems with alternative stable states commonly display this effect in which the path to return to a state differs from the path originally taken away from the state.

ANSWER: **hysteresis**

[10] Richard Lewontin is usually cited as the first person to consider alternative stable states. He also introduced the term "spandrels" in a paper subtitled "A Critique of the Adaptationist Programme" that he coauthored with this Harvard evolutionary biologist. With Niles Eldredge, this guy proposed the idea of punctuated equilibrium.

ANSWER: Stephen Jay **Gould**

4. The narrator of this poem has his questions answered by a nun in a white hood, and wonders whether a mother who could see her son at the age of 60 would think it "a compensation for the pang of birth/ or the uncertainty of his setting forth." For 10 points each:

[10] Identify this poem by William Butler Yeats.

ANSWER: **Among School Children**

[10] "Among School Children" concludes with this question, which follows Yeats' exclamation "O body swayed to music, O brightening glance?"

ANSWER: **How can we know the dancer from the dance?**

[10] Along with "Sailing to Byzantium" and "On a Picture of a Black Centaur by Edmund Dulac," "Among School Children" is found in this collection, which takes its name from the second poem, referencing the castle in which Yeats lived.

ANSWER: The **Tower**

5. In Chinese mythology, this practice was taught to humans by the gods Houji, Houtu, and Shennong, the latter of whom gifted humans with the *leisi* tool. For 10 points each:

[10] Identify this common human practice. Shennong's division of the calendar into 24 *Jieqi* was intended to help with the timing of this practice.

ANSWER: **agriculture** [accept anything having to do with planting stuff]

[10] Agriculture was notably taught to this Eleusynian prince by Demeter. She also attempted to make his brother Demophon immortal by dangling him in a fire.

ANSWER: **Triptolemus**

[10] You had to sacrifice lots of people to win the favor of this Aztec god of agriculture, who was the Red Tezcatlipoca and is often portrayed as a flayed man.

ANSWER: **Xipe Totec**

6. In one of the best reviews ever written of anything, really, Nina Strohming trashed the fuck out of Colin McGinn's book on "The Meaning of" this concept. For 10 points each:

[10] Identify this concept, the "Anatomy" of which titles a 1997 book by the legal theorist William Miller.

ANSWER: **disgust**

[10] This philosopher argued against the use of disgust as a guide to lawmaking in her book *Hiding From Humanity: Disgust, Shame, and the Law*.

ANSWER: Martha **Nussbaum**

[10] In his introduction to *The Anatomy of Disgust*, Miller explicitly acknowledges imitating the style of *The Anatomy of Melancholy* by this 17th century British vicar.

ANSWER: Robert **Burton** [accept **Democritus Junior** I guess]

7. In one painting that is part of this series, two cherubs holding roses float above a scene in which Minerva accompanies the personification of two nations in placing the title object on the head of the man at the center of that painting. For 10 points each:

[10] Identify this series of paintings that includes *The Union of the Crowns*, as well as an apotheosis, and ovals depicting things like the triumph of the virtues over the vices.

ANSWER: the **ceiling** of the **Banqueting House** at Whitehall [accept **Rubens' paintings of James I** but prompt if they just say "James I" without giving the artist; do not read alternate answers]

[10] The ceiling of the Banqueting House at Whitehall was painted with the various achievements of James I by this Baroque artist.

ANSWER: Peter Paul **Rubens**

[10] Rubens may have been inspired to paint the ceiling of the Banqueting House by a ceiling painting in the Doge's palace titled *The Triumph of Venice* by this Italian.

ANSWER: Paolo **Veronese** or Paolo **Cagliari**

8. This ruler of the Toungoo dynasty rose to the throne after his brother-in-law Tabinshwehti was assassinated. For 10 points each:

[10] Identify this king who ruled a unified Myanmar from 1551 to 1581, and was notable for his patronage

of Buddhism, including the building of pagodas and the distribution of copies of the Tripitaka.

ANSWER: **Bayinnaung**

[10] Bayinnaung solidified his power by crushing the revolt led by Smim Htaw of this kingdom, which had its capital at Pegu. It was finally absorbed into greater Myanmar in 1757 when Alaungpaya burned down Pegu and annexed this kingdom's territory.

ANSWER: **Mon** or **Hanthawaddy** kingdom

[10] In 1569, Bayinnaung captured this city, the capital of the Siamese kingdom, and took all of its royal family as hostages. The king of Myanmar Hsinbyushin would, in 1767, destroy the city, causing the Thai kingdom to relocate to Thon Buri.

ANSWER: **Ayutthaya**

9. This technique keeps track of all uses of an object, typically incrementing a value when another use is allocated, and decrementing it when it is released. For 10 points each:

[10] Identify this technique, which is used in the garbage collection scheme of the same name to automatically deallocate memory which is no longer being used.

ANSWER: **reference counting**

[10] This type of garbage collection scheme relies on the heuristic that the most recently allocated objects are also likely to be the fastest to be deallocated, and thus stores differently-aged objects in different memory regions. When such a region fills up, garbage is collected.

ANSWER: **generational** garbage collection

[10] C++ implements reference-counting via these constructs, which in that language come in unique, shared, and weak varieties.

ANSWER: **smart pointers**

10. This play's main character attempts to divide the land that houses his factory into small farms, but his plan is thwarted by the Men in Black, who demand continued production of the title substance. For 10 points each:

[10] Identify this play, whose main character is the Billionaire's Son. It is the second play in a trilogy its author began with *The Coral*.

ANSWER: **Gas** I

[10] *Gas I* was written by this German expressionist, who completed the trilogy in *Gas II*, in which the Figures in Blue release the gas to fend off the Figures in Yellow, leading to worldwide annihilation.

ANSWER: Georg **Kaiser**

[10] Kaiser's first play was inspired by this incident, related by Froissart, in which six men, seven in Kaiser's version, volunteer to be executed so that Edward III will spare a certain city.

ANSWER: burghers of **Calais** [accept anything that mentions Calais and citizens from it]

11. Name these medieval musical forms, for 10 points each.

[10] Along with the ballade and the virelai, this song form was one of the three *formes fixes*. Its structure can be represented as AB-aAab-AB. A nearly homophonous Italian word names a different musical form, which might have a structure like ABACA.

ANSWER: **rondeau** [or **rondel**]

[10] In the music for this thirteenth-century French dance, every section was played twice: once with the "open" ending and once with the "closed" ending. Its name may come from the French for "foot standing still".

ANSWER: **estampie**

[10] This genre arose from the tradition of inserting substitute clausulae into passages of plainchant. Each vocal part in one of these works has a different text. These works could be either sacred or secular, and

were sometimes isorhythmic.

ANSWER: **motet**

12. This book argues that the naive popular understanding of the title thinker's materialism is "utterly wrong," and that that thinker's philosophy is "a protest against alienation." For 10 points each:

[10] Identify this book, whose penultimate chapter concludes with an interpretation of the sixth of the *Theses on Feuerbach*.

ANSWER: **Marx's Concept of Man**

[10] *Marx's Concept of Man* was written by this Frankfurt school thinker, who blamed the descent into authoritarianism on the title phenomenon in his *Escape From Freedom*.

ANSWER: Erich Seligmann **Fromm**

[10] Fromm's interpretation of the sixth thesis is part of his critique of this man's reading of the same text; this thinker argued that "old political ideologies have exhausted their capacity either to explain events or to inspire men and women to constructive action," in his *The End of Ideology*.

ANSWER: Daniel **Bell**

13. This author wrote of the orphan Askar who is adopted by Misra during the time of the war over the Ogaden region in his novel *Maps*. For 10 points each:

[10] Identify this Somali author who chronicled the plight of a woman named Ebla in his first novel, *From a Crooked Rib*.

ANSWER: Nuruddin **Farah**

[10] Together with *Gifts and Secrets*, *Maps* constitutes this trilogy by Farah.

ANSWER: **Blood in the Sun**

[10] Koschin, the protagonist of Farrah's novel *A Naked Needle*, is a teacher whose favorite book is *The Interpreters* by this novelist and playwright of *Death and the King's Horseman*.

ANSWER: Akinwande Oluwole **Soyinka**

14. This statement, sometimes called the Maldacena duality, posits an equivalence between field theories that are invariant under certain transformations and string theories of quantum gravity. For 10 points each:

[10] Identify this useful duality from string theory.

ANSWER: **Anti de Sitter/Conformal Field Theory** correspondence

[10] Although this theory is not conformally invariant, there are regimes of it in which the AdS/CFT correspondence can be used to make non-perturbative calculations. It is the theory of the strong force.

ANSWER: **quantum chromodynamics**

[10] AdS/CFT can be applied to QCD in regimes where this value is approximately constant. Its growth at low energies renders perturbation theory inapplicable in that regime.

ANSWER: **coupling constant**

15. As a member of the Berlin Academy of Sciences, this thinker was frequently invited to deliver lectures there, and did so, delivering his *Lectures on Dialectic* and *Hermeneutics and Criticism*. For 10 points each:

[10] Identify this German thinker who conceived of theology as a "positive science" in his *The Brief Outline of Theology as a Field of Study*.

ANSWER: Friedrich Daniel Ernst **Schleiermacher**

[10] Schleiermacher is best known for this theological work, which defines the title concept as "the redemption achieved by Jesus of Nazareth."

ANSWER: The **Christian Faith** or Der **christliche Glaube**

[10] Schleiermacher caused some theological controversy for his decision to conclude his system with a

discussion of this doctrine, which contemporaries felt was treated like an appendix rather than the "coping-stone of Christian doctrine," as Schleiermacher called it. ANSWER: the **Trinity**

16. Identify some things about a three act play by Christa Coyler, for 10 points each.

[10] The three acts of the play are titled Eddy Diffusion, Longitudinal Diffusion, and Resistance to Mass Transfer, after the three terms in this chromatographic equation, the title of the play.

ANSWER: **van Deemter** equation

[10] The van Deemter equation is used to calculate the height equivalent to these things. Commonly calculated as sixteen times quantity retention time over peak width squared, the number of these things is a common measure of the performance of a chromatographic procedure. They are narrow zones of equilibria in a column.

ANSWER: theoretical **plates**

[10] Theoretical plates in chromatography are a carryover from this process, where each one is equal to one vaporization-condensation cycle. A fractionating column is used to improve separation in its fractional type.

ANSWER: **distillation**

17. This novel began as the short story "The Queen is Dead," about a "hip queer" named Georgette who is in love with Vinnie and eventually overdoses on heroin. For 10 points each:

[10] Identify this book composed of six loosely connected stories, including one about the gang rape of the title prostitute "Tralala."

ANSWER: **Last Exit to Brooklyn**

[10] *Last Exit to Brooklyn* was written by this American author, whose other works include a book consisting of the ramblings of an imprisoned man, *The Room*.

ANSWER: Hubert **Selby** Jr.

[10] Selby is probably best known for this novel about Marion, Harry, Tyrone, and Harry's mother Sara, which was adapted for the screen by Darren Aronofsky.

ANSWER: **Requiem For a Dream**

18. This work's thesis is that American culture is the product of four distinctive British migratory patterns, which include the Puritans from East Anglia and the Quakers. For 10 points each:

[10] Identify this work of cultural history, subtitled *Four British Folkways in America*.

ANSWER: **Albion's Seed**

[10] This historian at Brandeis wrote *Albion's Seed*. According to Wikipedia, he also apparently coined something called the "historian's fallacy," which occurs when historians assume that past decision makers had the same perspective that they do.

ANSWER: David Hackett **Fischer**

[10] Fischer traces the distinctive character of the Chesapeake Bay and tidewater regions to the immigration of indentured servants and this group of gentry from southern England, most of whom were supporters of Charles I against Parliament.

ANSWER: **cavaliers**

19. Friedrich Hayek introduced this idea into Anglophone economics in his lecture, *Prices and Production*. For 10 points each:

[10] Identify this hypothesis which states that in the long run, changes in the money supply affect only the nominal variables of the economy.

ANSWER: **neutrality** of money

[10] This application of the neutrality theory of money holds that an increase in the rate of money growth

results in both a higher inflation rate and a higher nominal interest rate.

ANSWER: **Fisher** effect or hypothesis

[10] According to this theory developed by Gregory Mankiw, short-term non-neutrality of money can arise from these costs, which establishments incur when they notify patrons of new prices.

ANSWER: **menu** costs

20. This monarch waged a short war against Clement XI in order to force him to recognize Charles III as king of Spain. For 10 points each:

[10] Identify this son of Leopold I who ruled the Holy Roman Empire for most of the War of the Spanish Succession.

ANSWER: **Joseph I**

[10] One of Joseph's biggest successes as a member of the privy council before he became emperor was the appointment of this notable general to head the *Hofkriegsrat*, or the war council. This man's victories include Zenta and Oudenarde.

ANSWER: Prince **Eugene** of **Savoy**

[10] Joseph died just days before the signing of the treaty of Szatmar, which ended the Kuruc rebellion headed by this Transylvanian prince.

ANSWER: Ferenc II **Rakoczi**