

## Cane Ridge Revival

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### TOSSUPS

1. **An essay by this author discusses Nabokov's bipartite conception of inspiration, *vortstorg* and *vdokhnovenie* as part of an analysis of Barthes. In one novel by this author, a character who puts on a faux-Brooklyn accent joins a gang of Haitian streetpeddlers. A poetry class ventures to a spoken word venue called The Bus Stop in a novel by her that begins with a motto from *Howards End*. In another of her works, one of two men who frequent the O'Connell's (\*) pub requests to have a portrait of his rebellious ancestor hung on the wall, much to the chagrin of two Jamaican pub regulars. The black conservative Monty Kipps is the archnemesis of Rembrandt expert Howard Belsey in one work by her, while in another, a boy joins an extremist Muslim group called KEVIN that plans to interrupt the presentation of FutureMouse by Marcus Chalfen. For 10 points, name this contemporary British author of *On Beauty* and *White Teeth*.**

ANSWER: Zadie Smith

2. **The major product of this metabolic process forms a biodegradable polymer in the bacterial PHB pathway. Under alkaline conditions, adding glycine allows two products of this process to be detected by producing a purple color after complexing with nitroprusside. An intermediate in this process can both undergo slow, spontaneous decarboxylation to produce an achiral product and enzymatic reduction at its non-carboxylate carbonyl to produce a chiral one. This process is favored by low concentrations of (\*) oxaloacetate. Like the mevalonate pathway, this process proceeds via an HMG-CoA intermediate. This process is the exclusive catabolic pathway for lysine and leucine. For 10 points, name this metabolic response to low carbohydrate intake or fasting that produces beta-hydroxybutyrate, acetoacetate and acetone, its three namesake bodies.**

ANSWER: ketogenesis [accept word forms; accept ketone body production or equivalents before mentioned; accept ketosis or ketoacidosis or hyperketonemia; prompt on “fatty acid breakdown” or “fatty acid oxidation” or “beta-oxidation” or equivalents; prompt on “fasting” or “starvation” or equivalents before “fasting”]

3. **The initial proposal for this organization grew out of Senator Harley Kilgore's concern that monopolies and prestigious universities were withholding wartime innovations, and his proposal included government ownership of intellectual property and public input on its funding priorities. Between 1985 and 1995, this organization ran a network of five university computing centers and NCAR (“N-car”) and which developed into the commercial internet. Truman pocket-vetoed the Magnuson Bill, which would have created this organization, on the ground that the (\*) panel of experts it empowered was unaccountable, as proposed by the report which became the leading impetus for this organization, *The Endless Frontier* by Vannevar Bush. The Coburn Amendment ordered this organization to require that grants for political science serve US national security or economic interests. For 10 points, name this government agency that funds most basic science and social science research.**

ANSWER: National Science Foundation [or NSF]

4. WARNING: DESCRIPTION ACCEPTABLE

This object is served by three “harvest spirits” called “Bread,” “Fields” and “Greens,” as well as the “providers of food” and “earth openers.” This object is attached to a finite rope that produces mysteries and an endless rope that represents infinite time. While guarding it, three figures are given the epithets “Speech,” “Wide-Awake” and “Lord of Truth.” The presence of a hanging carpet differentiates the two forms of this object, *Mandjet* and *Mesektet*. The snake (\*) Mehen encircles this object, which is protected by a giant cat and by the god of magic, Heka. The *Book of Caverns*, the *Book of Gates* and *Amduat* are major sources on the ritual surrounding this object, which creates solar eclipses when engulfed by an evil serpent. For 10 points, name this vehicle attacked every night by Apep, which transports a celestial object with Ra at the helm.

ANSWER: solar barque [or Ra’s barge before mentioned; accept any answer indicating a watercraft with a connection to Ra or the sun; accept Mandjet or Mesektet or variants such as Sektet or Matet before mentioned]

5. Mike Dowman created a Bayesian model for how these words are acquired and develop historically. “Nol” and “wor” are this type of words in Berinmo, which Debi Roberson and others claimed provides evidence for linguistic relativism. Based on experiments with English speaking Americans and Indonesian Dani speakers, Eleanor Rosch concluded that the differences in these words did not lead to differences in how people remember the things themselves, which supported earlier studies by Eric Lenneberg and Roger Brown. Brent Berlin and Paul Kay divided these words into (\*) seven stages and claimed any language that had one of the words in a given stage also had those in all previous stages. A famous sentence analyzed by Noam Chomsky concerns green ideas that lack this property. For 10 points, name this type of word, like “red.”

ANSWER: color terms

6. In one novel, this character awakes at exactly four AM each morning to use a rowing machine and almost spills a glass of water on himself when he thinks that he has wet his pants at a luncheon for a marine trainer. This character’s abilities are compared to the “Omega Effect” in a novel whose narrator likens keeping girls from him to keeping the One Ring from Sauron. Sister Mary obtains a visa for the protagonist of another novel to go to school in Michigan on a scholarship after her disgraced father (\*) “Egghead” arranges a failed sexual encounter with this character, who is killed by a group of men lying in wait for his sky-blue Chevrolet. This character places a fukú on Beli Cabral’s family when he tortures an overweight “Ghetto Nerd’s” grandfather Abelard in a novel narrated by Yunior. For 10 points, name this dictator whose regime is described in *The Feast of the Goat* and *The Brief Wondrous Life of Oscar Wao*.

ANSWER: Rafael Leonidas Trujillo Molina [accept The Chief or El Jefe; accept The Goat or El Chivo before mentioned; accept His Excellency; accept The Benefactor; accept The Generalissimo; accept The Failed Cattle Thief; accept Fuckface; accept Sauron before mentioned; accept Arawn; accept Darkseid; accept the Once and Future Dictator; accept The Admiral; accept the Culocrat]

7. A particle originally hypothesized by this man can be created when proton-proton collisions cause two gluons to form a top quark loop, or by a process wherein a fermion-antifermion collision creates a virtual particle that emits the desired particle in a namesake strahlung. One phenomenon named for this man is modeled by a “Mexican-hat” shaped potential, in which a transition from the local maximum at the origin to a state in the ring of minimal potential generates four non-(\*)Nambu-Goldstone particles. Following that episode of spontaneous symmetry-breaking, three of the resulting particles are “eaten,” completing this man’s namesake mechanism, which results in massive W and Z bosons. Alongside Francois Englert, this man won the 2013 Nobel Prize in Physics. For 10 points, identify this namesake of a boson that, in the Standard Model, is created from the field that gives rise to mass.

ANSWER: Peter Higgs

8. A musician primarily known for playing this instrument wrote the songs “Rocker” and “Jeru”, which appear on *The Birth of the Cool*, and led a band of his own on the album *The Age of Steam*. The Duke Ellington composition “Cotton Tail” was written for one player of this instrument. An album named for this instrument’s supremacy was recorded by Sonny Stitt. Grafton produced a famous (\*) plastic version of this instrument. One player of this instrument co-founded the band Weather Report with Joe Zawinul. The bass-player Paul Chambers lends his name to a song by one player of this instrument, who also wrote a song named for his daughter Naima. Gerry Mulligan, Ben Webster, and Wayne Shorter all played this instrument, which was played by the bandleader on *Giant Steps*. For 10 points, name this instrument played by John Coltrane.

ANSWER: saxophone [be generous, and accept “alto”, “tenor”, and “baritone” varieties]

9. The vertical organization of Tlaxcalan, Mixtec, and Zapotec examples of these documents is thought to be a literal interpretation of the phrase “por linea recta” that recurs in the colonial judicial record pertaining to property rights. Although it means “missing,” the word “Hudjefa” was once interpreted as an element of these documents, including the ones named for Saqqara and Turin; the latter example most closely resembles (\*) Menetho’s version. Peribsen is absent from these documents, and his “Serekh” found on pottery and steles is surmounted by Set rather than Horus, as is typical for these documents. The second sentence of the Behistun Inscription is one of these documents, and Sumerian examples of these documents recount the dynasties of Kish, Uruk, and Ur before the conquest by Sargon of Akkad. For 10 points, what are these documents that trace royal lineage?

ANSWER: king lists [or royal genealogies; accept equivalents and do not insist on “royal.” Do not accept or prompt on general answers like “histories” or “inscriptions.”]

10. One document produced at this event refers to promoting the proper development of culture to be one of “problems of special urgency”. In this event’s aftermath, the journal *Concilium* was founded to promote its spirit. At this event, the concept of *ressourcement* was championed by the conservative wing, many of whom were members of the Congregation of the Holy Office. At this meeting’s “Black Thursday” or “Day of Wrath”, the pope postponed the vote on a document lobbied for by John (\*) Courtney Murray, which was a declaration on religious freedom. Cardinal Bea spearheaded a document that opposes blaming Jews for the death of Christ. Those documents produced by this council are the *Dignitatis Humanae* and the *Nostra Aetate*. For 10 points, name this church council led by John XXIII and Paul VI, which authorized masses in the vernacular and liberalized 20<sup>th</sup>-century Catholic practice.

ANSWER: Second Vatican Council [or Vatican II]

11. An essay on this concept criticizes Floyd Hunter's survey that asked residents of a Southern city which leaders out of a list of forty they would choose to make community decisions. That essay proposes a metric of this concept as the difference of two conditional probabilities and uses it to rank U.S. senators. That essay was written by Robert Dahl. John French and Bertram Raven posited there were five sources or “bases” of this, which include the ability to reward and expertise. Lloyd Shapley and Martin Shublik showed this property for a coalition was not proportional to the coalition's relative size, but instead proposed an index based on the number of times the coalition was (\*) pivotal in affecting a vote. Dahl's study of New Haven led him to conclude that this concept was divided among several distinct groups. For 10 points, what is this concept that Weber defined roughly as the ability to make other people do what you want and which is held by an “elite” according to a C. Wright Mills title.

ANSWER: power

12. One theorem named for this man can be proven by iteratively applying a function, then bounding above by a geometric sequence to show that those points are Cauchy convergent. Along with an alliteratively named Austrian, this man lends his name to a theorem allowing the extension of a sublinear functional to a whole space. If a self-map  $T$  in a metric space has the property that the distance between  $Tx$  and  $Ty$  is less than a subunitary constant times the distance between  $x$  and  $y$ , then  $T$  has a (\*) fixed point, according to his theorem about contraction mappings. The theorem stating that, in a certain kind of space, a set of pointwise bounded linear operators is uniformly bounded is named for him and Hugo Steinhaus. This man's namesake spaces are complete normed vector spaces. For 10 points, identify this Polish mathematician who co-names a result that uses the axiom of choice to cut up a sphere and reassemble it into two identical copies, along with Tarski.

ANSWER: Stefan Banach

13. In this play, one character is confused to learn that McCullers' *Ballad of the Sad Café* is banned by the D.A.R. but recommended by the local college. One character in this play dreams of working his way up the ranks of an oil company after another character offers him a job working on the pipeline. In this play, a young girl getting sick from drinking too much whiskey is blamed on a college dropout by a drunk (\*) schoolteacher who was stung that the dropout rejected her efforts to get him to dance with her. The salesman Howard is pressured into marrying the desperate spinster Rosemary Sydney in this play, which ends with Alan Seymour's girlfriend, Madge Owens, running away from home to pursue the train that drifter Hal Carter hopped on to escape the police. For 10 points, name this play by William Inge about romantic misadventures in a small town in Kansas during the title Labor Day celebration.

ANSWER: Picnic

14. This painter showed nude female figures bathing in a stream who shield their breasts in fright, while the title blond goddess points towards a man in blue in the upper-left corner, who begins to sprout antlers, in his version of *Diana and Actaeon*. In one painting by him, two children stand to the left of a woman in pink who is reaching up into a tree that leans to the left on the shores of a pond. In a painting by him set in a desert landscape, a child in white lies prone on a (\*) rock next to a kneeling woman in black, who clutches her head in despair, while an angel can be spotted flying towards them in the distance. His most famous landscape shows a river valley with the ruins of a Roman arch bridge in the title Umbrian city. For 10 points, name this painter of *Hagar in the Wilderness*, *Souvenir de Mortefontaine* and *The Bridge at Narni*, the leading landscape painter of the Barbizon school.

ANSWER: Jean-Baptiste-Camille Corot

15. This philosopher argued against the possibility of an unordered universe with the analogy of deriving a function whose graph traces over randomly drawn points. He used the example of Alexander the Great to argue that a substance was a concept complete enough to allow all of its possible predicates to be deduced from it, and that consequently, any substance mirrors the properties of the entire universe. This man argued that for any (\*) identical objects, any property of one is shared by the other, which is sometimes called his law. This author of *Discourse on Metaphysics* divided truths into "truths of reason," which rested on the principle of contradiction, and "truths of fact" which relied on a principle he described in his correspondence with Samuel Clarke: his principle of sufficient reason. For 10 points, name this philosopher mocked by Voltaire for claiming we live in the best of all possible worlds.

ANSWER: Gottfried Wilhelm von Leibniz

16. This man issued a proclamation stating that "Europe, fixing its eyes upon us, wonders at our inertia." After the execution of Tudor din Vladimiri, forces led by this man suffered a defeat at the Battle of Dragashani. During his subsequent exile, this man was imprisoned for four years in Terezin after his ploy to gain asylum in Austria failed. At Sculeni, this man crossed the Pruth river, after which he issued a proclamation in Iasi claiming (\*) Russian support for an uprising of Danubian principalities, though that was disclaimed by a Russian foreign minister who later retired to support this man's cause. This man was elected president of the Filiki Eteria after John Kapodistrias turned it down, and he then began an insurrection against Mahmud II. For 10 points, name this Hellenic Russian officer, the first leader of the Greek War of Independence.

ANSWER: Alexander Ypsilantis [or Alexandros Ypsilantis]

17. Ion formation during this process is inhibited by fungal gliotoxin, which targets the flavocytochrome b558 subunit gp91phox. In one type of cell, this process is contrasted with NET formation and proceeds via the activation of NADPH-oxidase to generate superoxides in a mechanism regulated by myeloperoxidase called the “respiratory burst.” *Mycobacterium* (\*) *tuberculosis* produces sulfatides that inhibit the final steps of this process, leading to the formation of Langhans giant cell granulomas. Chemoattractants that promote this process include C5a and IL-8. This process is indirectly facilitated by opsonins. The CD14 pattern recognition receptor is expressed by cells that perform this process, which include Kupffer cells and neutrophils. The vesicles formed by this process fuse with lysosomes. For 10 points, name this process of engulfing large particles, performed by amoebae and macrophages.

ANSWER: phagocytosis [accept macrophagy before mentioned; prompt on “endocytosis”; antiprompt on “pinocytosis”; prompt on “degradation” or other descriptions of breaking things down; prompt on “digestion”; prompt on any answers about the (innate) immune response; prompt on answers about engulfing things before mentioned]

18. Many of this composer’s late works utilize a recurring motif of a descending whole-step followed by a descending half-step. He wrote two works accompanied by instrumental septet in which three vocalists sing music mixing together five “emotional positions” in lines consisting of a nonsense language of this composer’s invention. He employed a “lamento” motif in the fourth movement of his *Horn Trio*, which is an homage to Brahms, and in (\*) “Autumn in Warsaw” the sixth and last piece in his first book of *Etudes*. This composer of *Aventures* wrote a piece scored for 100 metronomes and a piece that opens with the largest cluster chord ever: consisting of every chromatic note within a five-octave span. This composer of *Poeme Electronique* employed a style he called “micropolyphony” in works like *Apparitions* and *Atmospheres*. For 10 points, name this late 20<sup>th</sup>-century Hungarian composer.

ANSWER: György (Sándor) Ligeti

19. A walled enclave within this city was constructed in 1639 and contains the “moonlit square.” This city was the capital of a ruler who defeated Maldeo Rathore at the Battle of Sammel. The *Prithviraj Raso* describes the founding of this city by the Tomara dynasty, as well as describing the legend of a Chauhan ruler of this city. That ruler was captured by the Ghorid ruler Mu’izz ad-Din, one of whose slaves conquered this city and ordered the construction of the Quwwat al-Islam Mosque. That slave was Qutb ud-Din Aibak. An invasion by the Chagatai Khanate was repulsed by Alauddin, a member of the (\*) Khilji dynasty that governed from this city. This city’s control by Ibrahim Lodi came to an end following the Battle of Panipat, after which Babur occupied this city and made it his capital. For 10 points, name this namesake of a series of Northern Indian sultanates and capital of the Mughal Empire.

ANSWER: Delhi [do not accept or prompt on “New Delhi”]

20. One poem describes this figure as one “who cannot even be banished by Lethe.” The speaker asks, “What joy then if my boat has all sails spread / if it’s still dragged on the rocks by those two cables?” in a poem about the death of this figure, who in another poem is described as a green plant on a broken column representing a dead cardinal. This figure drives the speaker of one poem to “see without (\*) eyes, and have no tongue, but cry” because “death and life displease [him] equally.” The speaker of another poem addressed to this figure claims, “The flame that burns and destroys me / flows from lovely clear smooth living ice,” one of many oxymoronic binary oppositions used to describe his love for this figure in an example of the author’s namesake conceit. This figure apparently died of the plague in 1348. For 10 points, name this Neoplatonic ideal woman, the primary addressee of Petrarch’s *Canzoniere*.

ANSWER: Laura [accept Laura de Noves who may have actually been Laura]

## BONUSES

1. Members of this group aided the Kumul Khanate in its rebellion against Jin Shuren in Xinjiang. For 10 points each:

[10] Name this group of three Muslim families with the same name who dominated Qinghai, Gansu, and Ningxia as warlords until the end of the Chinese Civil War.

ANSWER: **Ma** clique [or the Three **Mas**; or anything involving the name **Ma**]

[10] A more famous Hui was this Muslim admiral, who made numerous voyages to Southeast and South Asia as well as Africa thanks to the patronage of the Yongle emperor.

ANSWER: **Zheng He**

[10] A group of Muslim mercenaries from Bukhara were settled near this city by Emperor Shenzong of Song, whose capital was here. This city fell to Jurchen invaders in 1127.

ANSWER: **Kaifeng**

2. Name some useful substances to have in a lab, for 10 points each:

[10] Most reactions are carried out in these media, which are the basis for typical extractions. Hexanes and diethyl ether are common nonpolar ones, while DMF, DMSO and THF are polar aprotic ones that speed up SN2 reactions.

ANSWER: **solvents** [prompt on **liquids**]

[10] The indicator cobalt(II) chloride can be used to visualize the effects of these agents after they have been added to a solution. Common examples include calcium chloride and sulfate salts such as magnesium sulfate.

ANSWER: **dessicants** [or **drying** agents; accept any answer with **anhydrous** or word forms; accept **hygroscopic** substances; antiprompt on molecular **sieves**]

[10] These insoluble matrices manufactured from styrene and DVB come in a variety of forms with different acidities, including the strongly acidic catalyst Amberlyst. Macroporous examples have high surface areas.

ANSWER: **ion-exchange resins** [accept **ion-exchange polymers**; prompt on partial answer; accept **anion-** or **cation-exchange resins/polymers**]

3. This man adopts Lenin's question "Who? Whom?" as a useful way to begin understanding political events. For 10 points each:

[10] Name this man who defends a "realist" approach to political philosophy against an "ethics-first" one in *Philosophy and Real Politics*.

ANSWER: Raymond **Geuss**

[10] Geuss attacked this man as exemplifying the "ethics-first" approach. He postulated a principle stating that social inequalities are acceptable if everyone has equal opportunity and the inequalities improve the lives of the worst-off.

ANSWER: John (Bordley) **Rawls**

[10] Rawl's difference principle was part of his second principle of this concept. He conceived of it "as fairness," and titled his most famous book for "a theory of" it.

ANSWER: **justice**

4. One character in this novel becomes fascinated by the biblical image of God cleansing Isaiah's sin with a burning coal. For 10 points each:

[10] Name this novel by Henry Roth about the lives of the immigrant Schearl family, who live on the Lower East Side of Manhattan.

ANSWER: **Call It Sleep**

[10] Henry Roth is possibly a model for this fictional author, who has an affair with his student Amy Bellette. In *Exit Ghost*, Nathan Zuckerman tries to protect this character's legacy from his literary biographer Richard Kliman.

ANSWER: E.I. **Lonoff**

[10] The other suggested model for Lonoff is this Jewish-American author of *The Fixer*, who wrote about baseball whiz-kid Roy Hobbs in *The Natural*.

ANSWER: Bernard **Malamud**

5. The first major composer of this genre was Philippe Verdelot. For 10 points each:

[10] Name this genre of secular vocal compositions that often feature musical text-painting. Claudio Monteverdi's nine books of them show the gradual emergence of the *concertato* style of these pieces.

ANSWER: madrigals

[10] This murderous Italian Renaissance composer was known for his expressive use of extremely chromatic harmonies in his madrigals, in evidence in his settings of "Moro lasso" and "Io parto, e non piu dissi".

ANSWER: Carlo Gesualdo (da Venosa)

[10] This 16<sup>th</sup>-century Netherlandish composer wrote hundreds of madrigals, including settings of all of Petrarch's *canzone*. His most famous madrigal is "Il bianco e dolce cigno".

ANSWER: Jacques Arcadelt [or Jacob Arcadelt]

6. This molecule is a more useful fluorescent probe than the other two amino acids with aromatic side chains, phenylalanine and tyrosine. For 10 points each:

[10] Name this amino acid that contains an indole side chain and serves as a precursor to auxins, niacin and serotonin. This amino acid is coded for by a repressible operon in *E. coli*.

ANSWER: L-tryptophan [or trp operon; or W; accept (2S)-2-amino-3-(1H-indol-3-yl)propanoic acid or 2-Amino-3-(1H-indol-3-yl)propanoic acid; accept Tryptan]

[10] The *trp* operon's attenuator site is located in this region between the promoter-operator and *trpE* gene. This peptide-coding region contains four sites with complementary base pairs that can form alternate secondary structures.

ANSWER: leader peptide-coding region [or trpL]

[10] Under *trp*-starved conditions, signals from the leader peptide lead to antitermination. Q and N antitermination proteins are expressed by this organism, whose transcription is also regulated by the Cro and C one repressors.

ANSWER: (entero)bacteriophage lambda [or lambda phage; or coliphage lambda; prompt on "phages" or "bacteriophages"]

7. This event was triggered by the failure of Jay Cooke & Co. after it was unable to market over-valued Northern Pacific Railway bonds. For 10 points each:

[10] Name this financial panic that began during Grant's second term.

ANSWER: Panic of 1873

[10] An 1874 demonstration in this New York City location by unemployed German immigrants agitating for public works projects was charged by mounted police officers, inaugurating violent repression that characterized the rest of the depression.

ANSWER: Tompkins Square Park

[10] This movement was galvanized by the Panic of 1873, resulting in the Potter Law regulating freight rates in Wisconsin and the Supreme Court case *Munn v. Illinois*.

ANSWER: The Grange

8. He wrote of a creature that predicts "the yoke of the evil Tatars" in his poem "Gamayun, the Prophetic Bird". For 10 points each:

[10] Name this poet who launched Russia's "Silver Age" with his "Verses to the Beautiful Lady", and who responded to the October Revolution in "The Twelve".

ANSWER: Alexander (Alexandrovich) Blok

[10] The October Revolution provided subject matter for this other Russian author's poem "The Swan Encampment". Her collection *Mileposts* is a chronological series of dated poems, forming a sort of verse-diary.

ANSWER: Marina (Ivanovna) Tsvetaeva

[10] This other poet of Russia's "Silver Age" wrote the collection *My Sister—Life*, but may be better known for his novel *Doctor Zhivago*.

ANSWER: Boris (Leonidovich) Pasternak

9. Angels of this kind are typically referred to as “Angel of the Lord” in English, rendering it ambiguous as to whether it’s the same one making an appearance in each passage. For 10 points each:

[10] Name this kind of angel, whose name means “messenger” in various Semitic tongues.

ANSWER: malakim [or malaa’ikah; or mala’ikt]

[10] This angel is a very common messenger in Abrahamic religions. He appears to the Virgin Mary to tell her to not be afraid when she is pregnant with Jesus.

ANSWER: Gabriel [or Jibril]

[10] Gabriel also appeared to Muhammad during this event, during which Gabriel began revealing the Qur’an verse by verse. This event is one of the events celebrated during the month of Ramadan.

ANSWER: Laylat al-Qadr [or the Night of Power]

10. He believed that criminality manifests itself in physical characteristics, which are genetically reproduced, a concept known as “criminal atavism.” For 10 points each:

[10] Name this founder of the Italian School of positivist criminology, whose point of view contrasts with the classical conception of his predecessor Cesare Beccaria.

ANSWER: Cesare Lombroso

[10] Many of the characteristics Lombroso believed to be criminal could be detected by measuring this part of the body. Determining personality from studying this part of the body is called “phrenology.”

ANSWER: skull [be generous and accept “cranium”; prompt on “head”; do NOT accept or prompt on “brain”]

[10] This French criminologist used anthropometric methods to classify criminals, keeping namesake data cards recording various measurements, so criminals could always be positively identified. The incompetent handwriting analysis he provided as an expert witness was partially responsible for the conviction of Alfred Dreyfus.

ANSWER: Alphonse Bertillon

11. In this film, a coffin is opened and found to be full of rats. For 10 points each:

[10] Name this film by F.W. Murnau, in which Count Orlock attempts to drain the life from Thomas Hutter. It is a loose adaptation of *Dracula*.

ANSWER: Nosferatu: *A Symphony of Horror* [or Nosferatu: *Eine Symphonie Des Grauens*]

[10] F. W. Murnau also directed this film, in which a hotel doorman is ashamed of his demotion to washroom attendant. It is noted for its almost complete lack of intertitles, and its improbable ending.

ANSWER: *The* Last Laugh [or *Der* Letzte Mann]

[10] Robert Wiene directed this other Expressionist film, in which the somnambulist Cesare murders people at the behest of the title asylum director.

ANSWER: *The* Cabinet of Dr. Caligari [or *Das* Cabinet des Dr. Caligari]

12. This rock is characterized by alternating bands of mafic and felsic constituents, which form in the protolith thanks to extreme shearing. For 10 points each:

[10] Name this metamorphic rock, which can form from either igneous or sedimentary precursors. The “Lewisian” variety is the basement rock of what remains of the former Laurentian plate.

ANSWER: gneiss

[10] Gneiss is often the basement rock in these regions associated with convergent boundaries, in which a continental plate compresses and overturns lower strata. The same deformation often produces folds.

ANSWER: thrust belt or thrust fault [accept reverse fault]

[10] The layers in gneiss are produced by this process, which occurs in metamorphic rocks characterized by planar “leaf-like” sheets. Rising granite batholiths can undergo a similarly named process and develop namesake fractures as they expand, such as Half Dome in Yosemite.

ANSWER: foliation [accept word forms; accept exfoliation dome or fracture or joint or word forms]



13. This man was dispatched to Cyprus and later appointed as John of Gaunt's deputy in Aquitaine. For 10 points each:

[10] Name this knight, who commanded English forces at the Battle of Otterburn and died while leading a rebellion at the Battle of Shrewsbury.

ANSWER: **Henry Percy** [or "**Hotspur**" Percy; or Harry **Hotspur**]

[10] Henry Percy commanded troops against the rebellion of this man but later joined his side. This man negotiated the Tripartite Indenture with Percy's father and Edmund Mortimer and held his court at Harlech Castle.

ANSWER: Owain **Glyndŵr** [or Owen **Glendower**]

[10] This man, born in Bolingbroke Castle, faced the rebellions of Owain Glyndŵr and Hotspur. This ruler imprisoned his cousin Richard II, whom he succeeded.

ANSWER: **Henry IV** [or **Henry Bolingbroke**]

14. The speaker of this poem attacks the rich man's "loads of freighted ore" by claiming, "This wealth is but a name / That leaves with useful products still the same" before concluding, "The country blooms a garden and a grave." For 10 points each:

[10] Name this poem that describes "those poisonous fields with rank luxuriance crowned." The speaker of this poem laments, "Amidst thy bowers the tyrant's hand is seen" and "trade's proud empire hastes to swift decay."

ANSWER: "The **Deserted Village**"

[10] "The Deserted Village" is an attack on the enclosure movement by this author, who compared the problems of various nations in *The Traveller*. He also wrote *The Vicar of Wakefield* and *She Stoops to Conquer*.

ANSWER: Oliver **Goldsmith**

[10] The title *She Stoops to Conquer* was possibly inspired by the lines "Despise the man that lays a Tyrant's Claim / To what he ought to conquer by submission" from this Restoration comedy by Aphra Behn, in which Willmore and his gang of Englishmen visit Naples for Carnival.

ANSWER: *The **Rover*** [or *The **Banish'd Cavaliers***]

15. Kuar used this phenomenon to slay his enemies. For 10 points each:

[10] Identify this meteorological phenomenon, the ball variety of which was supposedly caused by the golden apples of the Slavic god of it, Perun.

ANSWER: **lightning**

[10] Kuar was one of the major deities in the Central Asian belief system venerating this chief sky god of their pantheon, the namesake of a mountain in Kazakhstan.

ANSWER: **Tengri**

[10] In central Asian lore, the underworld god Erlik assisted in this event. In Greek myth, one of these events took place when the prophetic phrase "bones of your mother" was interpreted as a reference to rocks.

ANSWER: the **creation of humanity** [accept anything that mentions the coming into existence of the first humans]

16. One document supporting this movement was the manifesto "Revolt Against the City". For 10 points each:

[10] Name this movement championed by Grant Wood and Thomas Hart Benton that advocated realistic painting and a focus on rural subject matter. It was closely associated with WPA mural painting.

ANSWER: American **Regionalism** [or **American scene** painting]

[10] This Regionalist painter is best-known for his mural for the Kansas State Capitol of John Brown looking especially wild-eyed and holding a rifle; that work by him is *Tragic Prelude*.

ANSWER: John Steuart **Curry**

[10] In the foreground of this Curry painting, a woman in a yellow floral print dress stands in the crowd gathered in front of a red barn around a round tank of water, in which a man in a suit holds up a woman wearing white.

ANSWER: ***Baptism in Kansas***

17. Above a certain temperature, these materials will behave paramagnetically. For 10 points each:

[10] Identify these materials, which will be magnetized by an external field, then de-magnetize back to zero in a very slow, non-exponential manner due to frustration by ferromagnetic and antiferromagnetic regions spread throughout. Those regions are stochastically disordered, unlike similarly named “ices.”

ANSWER: **spin glasses** [do NOT accept or prompt on “spin ice”]

[10] This quantum mechanical result states that the wavefunction of integer-spin particles remains the same when two of them are swapped or rotated 360 degrees, but that the same operations generates a minus sign for particles of half-integer spin.

ANSWER: **spin-statistics** theorem [prompt on “Pauli’s theorem”]

[10] This bonus has been all about spin, which can be thought of as this quantity for small particles. In classical mechanics, it is equal to the moment of inertia times the angular velocity.

ANSWER: **angular momentum** [do NOT accept or prompt on “momentum”]

18. This king was known as “the fortunate” since he was named heir to the throne reluctantly by his cousin João II, who had personally murdered this man’s brother Diogo to try to neutralize an aristocratic challenge. For 10 points each:

[10] Name this ruler of the Portuguese golden age, who spent his reign re-casting Portuguese colonization as a religious movement and exiling the Jews or converting them by force.

ANSWER: **Manuel I**

[10] Both João II and Manuel I came from this royal house, which ruled until the death of Dom Sebastian at the Battle of Alcazarquivir.

ANSWER: **Aviz**

[10] Jorge de Lencastre, João II’s illegitimate son and Manuel’s chief rival, held this noble title, which was extinguished at his death on the pretext that the city it nominally refers to was a royal possession. This title was also held by Jorge’s great-uncle, who had been regent to and then launched a rebellion against King Afonso V.

ANSWER: Duke of **Coimbra**

19. Answer some questions about legal challenges to the Affordable Care Act for 10 points each.

[10] The case *NFIB v. Sebelius* dealt primarily with this provision of the Affordable Care Act. The Court held that this provision of the law was a constitutional exercise of Congress’s power to tax, but not of its power to regulate commerce.

ANSWER: the **individual mandate** [accept descriptive answers like “the **requirement** for **individuals** to purchase **health insurance**” and equivalents. Prompt if the word “**individual**” or equivalents like “**people**” is not included, and do not accept “employer mandate” or anything about businesses. This tournament opposes the concept of corporate personhood.]

[10] The court also faced the question of whether the individual mandate could be separated from the rest of the law such that, if it were to be struck down, the entire law would not have to be struck down as well. That concept is denoted by this term.

ANSWER: **severability**

[10] The case *Sebelius v. Hobby Lobby* deals with the question of whether a for-profit company’s objection to the mandate that insurance policies cover contraception violates this law’s requirement that the government “not substantially burden a person’s exercise of religion”.

ANSWER: **Religious Freedom Restoration** Act of 1993 [or **RFRA**]

20. Lots of literary characters are named Paul. For 10 points each:

[10] This author began his novel *Paul Clifford* with the line “It was a dark and stormy night.” He also coined the phrase “the pen is mightier than the sword” in his play *Richelieu*.

ANSWER: Edward **Bulwer-Lytton**

[10] In this novel, Paul Pennyfeather joins the Bollinger Club while at Oxford, gets expelled, and then goes to jail as a result of his wife’s business running South American brothels.

ANSWER: **Decline and Fall**

[10] In this novel, Paul Pokriefke was born on the day of the sinking of the *Wilhelm Gustloff*. Paul’s son Konny shoots Wolfgang Stremplin, a reversal of the historical assassination of Gustloff by David Frankfurter.

ANSWER: **Crabwalk** [or *Im Krebsgang*]