

2021 ACF Nationals

Packet 11 by the Editors, Emergency

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Tossups

1. Conceiving of this term in a person-centered, liberatory framework is central to a 1991 Ken Booth paper titled for both this concept and “emancipation.” The observation that “redefining” this term “has become something of a cottage industry” opens a paper by David Baldwin on the “concept” of it. Barry Buzan, who examines this concept as a social construct as a member of the “Copenhagen school,” theorized that it could be based on “regional complexes.” John Herz posited that “self-help” actions in pursuit of this concept, under the anarchy of the international system, could provoke a response and lead to conflict in a “dilemma” named for it. Whether states should seek domination or moderation in service of this concept is the central difference between offensive and defensive realism. For 10 points, identify this international relations term denoting a state’s desire for safety based on its defense.

ANSWER: **security** [or national **security**; or human **security**; or **securitization**; or **security** dilemma; do not accept or prompt on answers mentioning “defense”]

2. A book by Werner Sollors notes that this woman is always defined by the roles of “daughter, wife, mother, and discarded woman.” While trying to understand the “threatening mist” she feels pervading her once-loving home, this woman feels her blood turn to ice as she stares at a half-naked boy standing by her own sumptuous mahogany bed. Near the end of the work in which she appears, this woman’s thin white dress and delicate slippers are quickly torn to shreds by the “stubble” of a deserted field, and she is last seen disappearing into a thicket of willows. This mother of a “suckling pig” lives in a “sad looking” yellow mansion whose “negroes have forgotten how to be gay,” the plantation L’Abri. She was found asleep beneath a stone pillar as a baby, and after this woman leaves her husband Armand, he burns their child’s cradle and a letter revealing that he is part black. For 10 points, name this woman whose “baby” titles a story by Kate Chopin.

ANSWER: **Désirée** [or **Désirée** Valmondé; accept **Madame Aubigny** or **Mme Aubigny** or **Mrs. Aubigny**; prompt on **Aubigny** alone; but do not accept or prompt on “Valmondé” alone; do not accept or prompt on “Désirée’s Baby”]

3. A 19th-century artist from this country made a painting depicting a prince wearing a green turban being arrested on the steps of a mansion. To keep the secrets of the “artificial sea” and the “underground mosque” within this country’s “Water Castle,” its Portuguese architect was supposedly killed by the sultan who commissioned it. This country’s *ruangrupa* art collective will curate Documenta 15 in 2022. *Kraton* palaces are from this country, where temples called *pura* feature stone shrines called *candi*. Folklore holds that a hero named Rara built the 999 temples that make up the site of Prambanam in this country. Another site in this country features three concentric circles of Buddhas that sit within perforated, bell-shaped *stupas*, and is comprised of nine layers of stacked stone. The massive Buddhist complex Borobudur can be found in, for 10 points, what archipelagic country in southeast Asia?

ANSWER: **Indonesia** (The artist in the lead-in is Raden Saleh.)

4. In defending the DOJ's 2019 decision to reverse the results of a case concerning this industry, Assistant Attorney General Makan Delrahim cited "consumer-friendly innovation." In that case, the Supreme Court established a set of rules for when "clearances and runs" in this industry were reasonable. William O. Douglas's majority opinion in that case upheld the consent decree imposed on this industry, which included a ban on "blind buying." This industry's Little Three and Big Five were named in a case in which the Supreme Court held that block booking and this industry's vertically-integrated structure were anti-competitive. The Committee for the First Amendment defended a group of people in this industry, including Lester Cole and Ring Lardner Jr., convicted of contempt. For 10 points, name this industry involved in the 1948 antitrust case *United States v. Paramount*, which hastened the end of the studio system.

ANSWER: **Hollywood** [or the **film** industry; or the **movie** industry; or the **motion picture** industry]

5. Progenitors of these cells are specified by the transcription of HLXB9 via a complex of Lhx3 and Islet-1. Zolgensma is a gene therapy for a condition caused by the destruction of these cells, whose infantile form is Werdnig-Hoffmann disease. Smaller kinds of these cells are activated prior to larger ones according to Henneman's size principle. The stretching of GTOs results in type Ib afferents both exciting and inhibiting the alpha subtype of these cells. One type of these cells originate in the precentral gyrus, descend through the posterior limb of the internal capsule, and decussate in the medullary pyramids. Fasciculations, weakness and atrophy are signs of degeneration of the upper and lower type of these cells as seen in ALS. Poliovirus preferentially destroys these cells, whose spinal variety have cell bodies in the ventral horn. For 10 points, name these nerve cells that innervate voluntary muscles.

ANSWER: **motor neurons** [or **motoneurons**; or upper **motor neurons**; or lower **motor neurons**; or alpha-**motor neurons**; prompt on **neurons**, or **UMN**, or **LMN**, or **MN**; prompt on **Betz cells** with "What kind of cell is a Betz cell?";]

6. A poem about this result concludes "with quick steps and light feet . . . I have found" and "my foundations quite sure and certainly sound." According to one source, this result was derived by a man who was given thirty dinners after he used it to solve thirty problems posed by Antonio Fior. After being nagged to divulge this result, one of its co-discoverers revealed it by writing a 31-line poem on the condition that it never appear in print. Four years later, when Ludovico Ferrari independently derived this result, it appeared in print in the book *Ars Magni*. That book effectively snubbed Niccolo Tartaglia, the man who first derived it. This result requires a "change of variable" to create "depressed" expressions from the four terms of the input. Gerolamo Cardano is credited as the discoverer of, for 10 points, what formula that can be used to find roots of third degree polynomials?

ANSWER: **cubic formula** [accept the method of solving **cubic** equations; accept descriptive answers, such as "finding roots of **cubic** equations"]

7. The output of one of these objects can be synthesized by decomposing it into a sum of sine functions that must match the desired sector pattern at discrete points, an approach called the Woodward-Lawson sampling method. The performance of one of these objects can be improved in a given direction by adding an additional phase shift equal to pi divided by the number of elements, a criterion known as the Hansen-Woodyard endfire condition. One design of these objects consists of parallel half-wave elements, some of which are driven, and some of which are parasitic and are of different length than the drivers; that is the Yagi-Uda design of these objects. When these objects are directional, their far field radiation pattern is characterized by a stronger main beam and potentially several local minima called side lobes. The simplest of these objects is a driven dipole. For 10 points, identify these objects which are used to transmit electromagnetic signals through space.

ANSWER: **antennas** [or **antennae**]

8. The narrator of this novel describes it as a “story in Technicolor” and says his writing is “sponsored by the same soft drink that sponsored the last earthquake in Guatemala.” This novel is dedicated to twelve different composers, the memory of poverty, gnomes, and the color scarlet. This novel’s narrator, who at one point takes a three-day break from writing it, says he learned the story just from glimpsing “the feeling of perdition” on a girl’s face. This novel’s main character was raised by a sex-phobic aunt who got “sensuous pleasure” from rapping her on the head. This novel’s protagonist is told she will marry a wealthy foreigner named Hans after the coworker who stole her boyfriend Olimpico recommends visiting the fortune teller Madame Carlota. For 10 points, name this novel that is narrated by Rodrigo S.M., has a title ironically describing Macabea’s death in a hit and run, and was written by Clarice Lispector.

ANSWER: *The Hour of the Star* [or *A hora da estrela*]

9. A city established as the capital of this state in the 3rd century BC was excavated by the French under Louis Chatelain, using German prisoners of war as workers. A king of this state ruled the area east of the Mulucha River and left the western portion to his brother Bogud, whose wife Eunoë (“you-NO-ay”) had an affair with Julius Caesar. This state, the birthplace of the Roman emperor Macrinus, was divided by Claudius into provinces named “Tingitana” and “Caesariensis.” One king of this state was the father-in-law of the Numidian king Jugurtha; that ruler was Bocchus the First. In 1979, a modern-day country named for this state withdrew from a disputed region claimed by the Sahrawi people and the Polisario Front. For 10 points, name this ancient Berber state which lends its name to the last country in the world to abolish slavery, and whose North African inhabitants are the basis for the word “Moor.”

ANSWER: Kingdom of Mauretania

10. In one homily, this man compared the *kenosis*, or self-alienation of God, to a king who “puts aside his throne and royal cloak.” A “prayer” named for this man declares, “We provide yeast that produces effects far beyond our capabilities” and “We are prophets of a future not our own.” James Brockman collated excerpts from this man’s sermons into the book *The Violence of Love*. This editor of the publication *Orientación* was profoundly affected by the murder of his friend Rutilio Grande, after which he decided to “walk the same path.” At the ceremony for this saint’s canonization, Pope Francis wore part of the vestments this man was wearing when he died. This man’s radio show, the most popular in his country, often reported on recent tortures and murders. For 10 points, name this Archbishop whose 1980 assassination was ordered by the head of the El Salvadorean ARENA party.

ANSWER: St. Óscar Arnulfo Romero

11. In the 1930s, a dancer from this region toured the world with her folk-based dance “Eheya Noara.” In a dance from this region, a white-hooded performer waves their extremely long sleeves to evoke the repentance of an apostate monk. A circle of young women mime activities like tying herring during a harvest moon dance from this region. Pink peonies are printed on fans that are arranged into shapes in a group dance that developed from this region’s shamanic rites. Chinese artist Ai Weiwei wore handcuffs while performing a dance from this region, whose modern choreography often includes an easy-to-learn “point” dance. An event on Rungra Island in this region includes over 100,000 performers in one stadium as part of one country’s Mass Games. Hae-mi dances topless at sunset in *Burning*, a film from, for 10 points, what region home to directors Lee Chang-Dong and Bong Joon-Ho?

ANSWER: Korea [accept either North or South Korea]

12. An Opayé story from South America claims that this creature's mother kept all the fire, until it was chased down by a guinea pig named Prea. The site of Ek Balam was named for either the sparkling or the black type of this creature. The Ojibwe believed one of these creatures named Mishipeshu causes people to fall through the ice of Lake Superior. A deity known as God L who was "lord of the underworld" was known by this animal's name. A motif named for the "were-" form of this creature is evident in many monuments at La Venta. A rainbow goddess of the moon gives out medicine in this animal form, and is named Ixchel. The Eagle warriors and this type of warrior were military cults in Aztec society, and the first Mayan human was known as the "smiling" form of this animal. For 10 points, name this member of the panther genus native to Central America.

ANSWER: **jaguars** [accept **ocelots**; accept **lynx**; accept **panthers** or **underwater panthers** before "panther" is read; prompt on **cats** or **felines**, do not accept other cats such as "tigers" or "lions" or "leopards"]

13. One of the few 19th-century treatments of this event was a novel by Isabella Banks with heroic deeds by Jabez Clegg. A participant at this event, James Wroe, wrote a "Faithful Narrative of the Events," reprinted by the *Black Dwarf* journal. Historian Robert Poole argued that its participants used the tradition of rushbearing and uncovered 70 compensation petitions sent to Parliament. Mary Fildes was the most prominent example of the women in white dresses, who were targeted as victims during this event. Following this event, the Newspaper and Stamp Duties Act increased taxes on editorials; that was one of the so-called Six Acts passed in its wake. Home Secretary Lord Sidmouth authorized using the "law" or the "sword" to prevent Henry "Orator" Hunt from speaking at this event, where the Riot Act was read and the Yeomanry cavalry charged into the crowd. For 10 points, name this 1819 massacre of reform advocates in Manchester.

ANSWER: **Peterloo** Massacre

14. In a section of this work sometimes omitted from orchestral performances, a female vocalist repeats a wordless descending C-sharp–B-flat–A that's later imitated by an English horn. Richard Taruskin described many "reversible chromatic [passes] between the fifth and sixth scale degrees" in this work as a *nega*, or desire, motif. A dramatic 3/4 section of this work has only basses on the first beat, followed by a strong second beat and weak third beat, which accompanies a slave chorus singing "songs of praise to" a certain leader. In another section of this work, a gliding chorus of maidens sings an undulating theme beginning with a B, B, high F-sharp; that theme was used for the song "Stranger in Paradise" from the musical *Kismet*. This section of a larger work generally follows Konchakovna's cavatina. For 10 points, name these dances taken from the end of Act II of *Prince Igor* by Alexander Borodin.

ANSWER: **Polovtsian Dances** [or **Polovetsian Dances**, prompt on *Prince Igor* before "Prince Igor" is read]

15. In a novel from this movement, a riot starts at a masquerade after an androgynous boy wins a prize for best female costume while dressed as a geisha from a perfume logo. A pair of romantic rivals who both belonged to this movement often fictionalized themselves as versions of Pierrot and Harlequin; two such characters are the soldiers Petka and Vanka, who kill the prostitute Katka in one of their poems. This movement produced Fyodor Sologub's *The Petty Demon*, as well as a novel set in 16th-century Germany about Ruprecht's devotion to Renata, Valery Bryusov's *The Fiery Angel*. In another novel from this movement, a man often costumed as the "Red Domino," Nikolai Apollonovich Abreukhov, receives a bomb packed in a sardine can meant to murder his father. For 10 points, name this hermetic literary movement exemplified in Russia by Alexander Blok's poetry and Andrey Bely's *Petersburg*.

ANSWER: Russian **Symbolism** [prompt on Russian **Decadent** Writing; prompt on the Russian **Silver Age**]

16. The first proof of this theorem defined a Property M which is possessed by all variables that have a value less than a certain value u . The Conway Base 13 function was devised as a counterexample to this theorem's converse, which does not apply to Darboux functions. The first proof of this theorem relied on a lemma stating that each bounded sequence in " \mathbb{R}^n " has a convergent subsequence. That lemma for this theorem is now known as the Bolzano-Weierstrass Theorem. This theorem is basically proven by showing that the supremum for a set exists as a consequence of the completeness of real numbers within a defined interval. A corollary of this theorem states that a root exists in the relevant interval if the interval takes on values of opposite signs. For 10 points, what theorem states that a function over a continuous interval takes on all values between "f of a" and "f of b"?

ANSWER: **intermediate value** theorem

17. Systems that obey this statement appear on a horizontal line in a plot developed by Andraos et al., who also noted that this statement applies when plasticity equals 1. Seeman and Farone presented the full analytical treatment of the system described by this statement, and quantified deviations from both it and the related Winstein-Holness equation. This statement is used to predict the enantiopurity of the product of dynamic kinetic resolution. The alkylation of tropane illustrates this statement, one side of which contains e to the power of $\Delta\Delta G^\ddagger$ over RT . It applies to schemes in which a reactant has two rapidly-interconverting conformations. For 10 points, name this principle stating that the product distribution of a reaction with two pathways is dependent on the relative energies of the two transition states, named for two chemists.

ANSWER: **Curtin-Hammett** principle

18. After his foil jokes that instead of Paddington looking like Hades, Hades looks like Paddington, this character quips "It'll be a pity if inversion is all he's known for," referencing the other's sexuality. In one scene, this man enters in a boat holding a small yapping dog, played by a toy (stuffed) dog. When a companion claims to recall Aeschylus' lost *Myrmidones* and recites a line about Patroclus' thighs, this character quotes back the original Greek. This character, aged "77 and getting no older," is sometimes referred to by his initials to differentiate from his younger self, whom he lectures on Classics. This character meets Charon by the Styx and loves Moses Jackson, whose brother may have inspired a poem that notes "silence sounds no worse than cheers" and mourns the "early-laurelled head" of a runner. For 10 points, name this protagonist of Tom Stoppard's *The Invention of Love*, the author of *A Shropshire Lad*.

ANSWER: A.E. **Housman** [accept **AEH**]

19. Michael Sonenscher's book-length study of these people links them to the philosophy of Rousseau and salon society. A pipe-smoking fictional example of these people was the mascot of a newspaper popular with this group, *Le Père Duchesne*, published by Jacques Hébert until his execution. The priest Jacques Roux was a leader of the *Enragés* faction that championed this group's interests. The five days at the end of the French Revolutionary Calendar, which were not part of any month, were originally named for this group. These people were often depicted wearing a *carmagnole* coat and red Phrygian caps, or *bonnet rouges*. Heavily suppressed by the Muscadins after the Thermidorian Reaction, this group made up the mobs that dominated the Reign of Terror. For 10 points, name these working-class French revolutionaries, who wore trousers instead of the knee-breeches that typified noble dress.

ANSWER: **sans-culottes** [prompt on without breeches; prompt on generic answers referring to the lower class or working class]

20. This book describes the creation of a “pseudo-countryside” whose motto is “On this spot nothing will ever happen - and nothing ever has.” This book claims that the first agricultural laborers had their “temporal surplus value” taken by a ruling class who lived in linear, “irreversible” time instead of cyclical time. This book describes how workers lost the sense of life as a “journey” and the dominant sense of touch was replaced by sight. It’s not “Simulation,” but this book’s 221 theses variously define the title phenomenon as a map drawn to the scale of a world without time or space, “everything that exists officially,” and “capital accumulated to the point of becoming image.” This book calls for the unification of dadaism and surrealism into a movement that would soon influence the May 1968 uprisings, situationism. For 10 points, name this 1967 work of critical theory by Guy Debord.

ANSWER: *The Society of the Spectacle*

Bonuses

1. In 2019, a controversy erupted on this website involving Clarice Phelps, who is thought to be the first African-American woman to help discover a chemical element. For 10 points each:

[10] Name this website. An article on Phelps has been deleted from this website multiple times for failing to meet its notability criteria.

ANSWER: **Wikipedia**

[10] Taha Yasseri found that female physicists were 19% less likely to have Wikipedia pages than male physicists with the same value for this index. This index, named for a letter, quantifies a scholar's impact and productivity.

ANSWER: **h**-index

[10] Donna Strickland, who shared the 2018 Nobel Prize in Physics for the discovery of this technique involving stretching and compressing laser pulses, didn't have a Wikipedia entry before receiving the prize, though her male co-laureates did.

ANSWER: **chirped pulse amplification** [or **CPA**]

2. The fourth chapter of a book subtitled "policymaking by other means" discusses how opponents of the Affordable Care Act used a policy strategy denoted by this term to decrease total enrollment. For 10 points each:

[10] That 2018 book by Pamela Herd and Donald Moynihan is titled for what two-word phrase denoting unnecessary bureaucratic barriers that prevent citizens from accessing their benefits?

ANSWER: **administrative burdens** [accept **Administrative Burden**: *Policymaking by Other Means*]

[10] The last section of *Administrative Burden* describes the fraught history and confusing bureaucracy surrounding the "earned income" benefit of this type. Unlike deductions, which merely lower taxable income, these benefits reduce a tax bill on a dollar-for-dollar basis.

ANSWER: tax **credits** [accept earned income tax **credits**]

[10] Like most U.S. government benefits, the EITC is only available to people who fall within a certain income range; the process of determining whether a person or family is eligible is denoted by this two-word term.

ANSWER: **means testing** [accept answers mentioning **means** and a form of the word **test** such as **means tested**]

3. The author of this novel became convinced he was turning into a werewolf, and shot himself with a silver bullet. For 10 points each:

[10] Name this Napoleonic-era novel by Jan Potocki, whose hallucinatory frame story relates sixty-six days Alphonse van Worden spends in the Sierra Morena.

ANSWER: *The **Manuscript Found in Saragossa*** [or *The **Saragossa Manuscript***; or ***Manuscrit Trouve a Saragosse***]

[10] The frame story of *The Manuscript Found in Saragossa* also resembles that of this 14th-century collection by Giovanni Boccaccio, in which ten Florentines flee to the countryside from the Black Plague.

ANSWER: *The **Decameron*** [or *Il **Decameron**, *cognominato Prencipe Galeotto*]*

[10] The picaresque qualities of *The Manuscript Found in Saragossa* are sometimes compared to this 18th-century novel by Alain-Rene Lesage, about a Spanish teenager who leaves home to go to the University of Salamanca.

ANSWER: **Gil Blas** [or *The Story of **Gil Blas** of Santillana*; or *L'Histoire de **Gil Blas** de Santillane*]

4. In the book that introduced this historical framework, its author argues that since it ushered in a period of “liberal capitalism,” it ultimately made slavery the “Great Contradiction” of America. For 10 points each:

[10] Name this framework introduced in a 1991 book by the historian Charles Grier Sellers. It was theorized by Sellers to explain a shift in the U.S. from an agrarian society to a capitalist one.

ANSWER: **Market Revolution**

[10] Sellers introduced the Market Revolution paradigm in a book about this U.S. president, who waged the so-called “Bank War” against the Second Bank of the United States.

ANSWER: Andrew **Jackson**

[10] Sellers cites this 1837 Supreme Court case as a check against the Market Revolution, in which Taney’s court ruled that the Massachusetts state legislature had not violated the Contract clause.

ANSWER: **Charles River Bridge** vs. **Warren Bridge** [accept either underlined part]

5. The trumpeter Harry James claimed he felt “like a whore in church” while preparing to perform at this location, where Jess Stacy got an unexpected piano solo during a performance of “Sing, Sing, Sing.” For 10 points each:

[10] Name this venue. A historic 1938 Benny Goodman concert was the first performance by a “big band” at this place, a prestigious classical music concert venue in Midtown Manhattan that contains the Isaac Stern Auditorium.

ANSWER: **Carnegie** Hall

[10] One of the many guest musicians Goodman took on stage with him during the Carnegie Hall concert was this jazz saxophonist, whom Charles Mingus memorialized with the piece “Goodbye Pork Pie Hat.”

ANSWER: Lester **Young**

[10] Although the Benny Goodman Orchestra was the first “big band” to perform at Carnegie Hall, this earlier musician performed the first jazz concert at Carnegie Hall in 1912. This musician is credited with bringing jazz to France while serving with the “Harlem Hellfighters” in World War I.

ANSWER: James Reese **Europe** [or Jim **Europe**]

6. These compounds are useful as phase transfer catalysts for cationic polymerization catalysts like group 14 metallocenes. For 10 points each:

[10] Name these compounds, whose modern examples include derivatives of tetra-aryl-borates like BARF. Effective examples of these compounds have many sterically-closed electron-withdrawing groups.

ANSWER: **weakly-coordinating anions** [or **non-coordinating anions**; or **low-coordinating anions**; accept **superweak anions** or **WCAs**; prompt on **ions**, or **anions**, or **weak bases**, or **conjugate bases**, or **counterions**]

[10] Many weakly-coordinating anions can be converted into these substances via an intermediate silylation (“SIGH-leel-ation”) step, which is used to prepare carboranes. These substances have Hammett function less than negative 12.

ANSWER: **superacids** [prompt on **acids**]

[10] Common superacids achieve their high effective proton concentration by combining these two types of acids, with one accepting an electron pair from the de-protonated conjugate base of the other.

ANSWER: **Brønsted** acid AND **Lewis** acid [or **Brønsted-Lowry** acid AND **Lewis** acid]

7. Particles of this substance found in meteorites are called presolar grains. For 10 points each:

[10] Identify this substance, which along with interstellar gas, attenuates light, causing interstellar extinction. It is composed of solid micrometer sized particles found in interstellar space.

ANSWER: **dust** [or stard**ust**; or interstellar **dust**]

[10] Since gas and dust preferentially attenuates light with shorter wavelengths, interstellar extinction of light causes this phenomenon to occur. It is responsible for the "color excess" observed in photometry.

ANSWER: interstellar **reddening** [do not accept or prompt on "redshift"]

[10] The presence of interstellar reddening can be identified by measuring this ratio of intensities of three spectral lines. In planetary nebulae, deviation of this ratio from the ideal 2.86 to 1 to 0.47 ratio indicates reddening.

ANSWER: **Balmer decrement** [prompt on answers referring to Balmer line intensities]

8. This poet's fruitful late period, in which he published the volumes *Canaan*, *The Triumph of Love*, and *Speech! Speech!* after thirteen years of silence, is often attributed to the treatment of his depression. For 10 points each:

[10] Name this poet who included several poems about the Holocaust, such as "September Song" and "Ovid in the Third Reich," in his second collection, *King Log*. This poet drew on Anglo-Saxon history for his *Mercian Hymns*.

ANSWER: Geoffrey **Hill**

[10] Basil Bunting dramatized the death of Eric Bloodaxe in part two of this long modernist poem about Northumbria, which begins, "Brag, sweet tenor bull."

ANSWER: **Briggflatts**

[10] This Irish poet of *Station Island* and *Death of a Naturalist* rendered the incipit "Hwaet!" as "So." in his 1999 translation of the Anglo-Saxon epic *Beowulf*.

ANSWER: Seamus **Heaney**

9. One account claims that this action was actually done by Sciarra Colonna, a mercenary in the employ of Guillaume de Nogaret, after he was told "I recognize the first-born son of Satan." For 10 points each:

[10] Name this humiliating episode, which took place in a small town in central Italy. Many historians at the time theorized that both the subject of this act and his successor Benedict XI were cursed as a result.

ANSWER: **Schiaffi di Anagni** [or the **Slap at Anagni**; or the **Outrage at Anagni**]

[10] Boniface VIII was "slapped at Anagni" after he issued this bull, which affirmed the power of the pope over European kings, angering Philip the Fair. It followed his previous bulls *Clericis Laicos* and *Ausculta Fili*.

ANSWER: **Unam Sanctam**

[10] Dante Alighieri argued against Boniface's position in his treatise *De Monarchia*, a position which aligned with him being a member of the White branch of this faction, which clashed in Italian politics with the Ghibellines.

ANSWER: **Guelfs** [or **Welfs** or **Guelfi** or **Guelfo** or **Guelf**]

10. The composer of this piece said he heard its difficult tenor solo as "some sort of high priest," and revised some of this work's 5/4 ("five four") rhythms to 4/4 ("four four") to make them easier to sing. For 10 points each:

[10] Name this work for vocal soloists, double chorus, and orchestra. Conductor Charles Mackerras revived the practice of having three offstage clarinets in this work's "Veruju" movement.

ANSWER: **Glagolitic Mass**

[10] This composer of *Glagolitic Mass* used naturalistic and free vocal rhythm in his operas, like *The Makropoulos Affair*. This composer's choral parts for the *Mass* are considerably faster and less natural, although they often retain the first-syllable stress common in his native Czech.

ANSWER: Leoš **Janáček**

[10] The *Mass* ends with a "Postludium" solo for this instrument, which is sometimes played as a standalone concert piece. The *Grand Piece Symphonique* is one of Cesar Franck's *Six Pieces* for this instrument.

ANSWER: pipe **organ**

11. A study in this discipline, “Intentional Action and Side Effects in Ordinary Language,” involved posing a scenario about a company chairman to passersby in Central Park. For 10 points each:

[10] Name this subdiscipline of philosophy, whose 2008 “manifesto” was co-authored by Joshua Knobe and Shaun Nichols. Practitioners of this field gather data about the philosophical intuitions of laypeople.

ANSWER: **experimental** philosophy [accept **x-phi**, do not accept “empirical philosophy”]

[10] This x-phi advocate has argued that armchair philosophy was always observational but oversampled educated white men. This blue-haired CUNY professor defended a Jamesian theory of emotions in his book *Gut Reactions*.

ANSWER: Jesse J. **Prinz**

[10] In a 2017 study, Joshua Knobe presented participants with this thought experiment by Hilary Putnam. Unlike Putnam’s intuition, most people agreed that liquid XYZ is water even if it is not H₂O.

ANSWER: **Twin Earth**

12. In a Canadian novel set during this conflict, bisexual war hero Eugene Taffler throws the unclaimed ashes of a fellow soldier into the water “just like a football.” For 10 points each:

[10] Name this war during which Dunstan Ramsay loses his leg in Robertson Davies’ *Fifth Business*. Robert Ross travels from Toronto to join this conflict in Timothy Findley’s novel *The Wars*.

ANSWER: **World War I**

[10] While watching Robert leave for battle, his mother thinks this phrase and then “And this was what they called the wars.” A 1948 essay titled for this eight-word quotation outlines a “myth” that “our dark-skinned beloved will take us in...when we have been cut off...from all others.”

ANSWER: “**Come Back to the Raft Ag’in, Huck Honey**” [or “**Come on back to the raf’, Huck honey**”; prompt on partial answers]

[10] “Come back to the raft ag’in” is a line originally attributed to this character, a slave who accompanies Huck down the Mississippi in *The Adventures of Huckleberry Finn*.

ANSWER: **Jim**

13. Answer the following about the incestuous mixing of Scandinavian nations, for 10 points each.

[10] In 1397, Queen Margaret I of Denmark engineered this union of her country with Norway and Sweden to check the Hanseatic League.

ANSWER: **Kalmar** Union

[10] The Kalmar Union was greatly weakened when the regent of Sweden by this name revolted against Christian I of Denmark at Brunkeberg. Another man of this name had his body exhumed and burnt at the stake during the Stockholm Bloodbath.

ANSWER: **Sten Sture** the Elder [or **Sten Sture** the younger; prompt on partial answer]

[10] At this 1814 convention, which followed the Treaty of Kiel, the defeated Norway was forced into a personal union with Sweden ruled jointly by Swedish king Charles XIII, which lasted until 1905.

ANSWER: Convention of **Moss**

14. Michael Fried's essay "Art and Objecthood" criticized the "theatricality" of this movement. For 10 points each:
[10] Name this movement of Donald Judd, Carl Andre, and Robert Morris. According to Arthur Danto, it replaced pop art as the "mainstream avant-garde" in the mid-1960s.

ANSWER: **minimalism**

[10] In a chapter from *The Return of the Real* called "The Crux of Minimalism," this other critic accused Fried of being puritanical and trying to enforce "quasi-objective" standards of taste. This student of Rosalind Krauss also wrote a collection of "essays on postmodern culture" called *The Anti-Aesthetic*.

ANSWER: Hal **Foster**

[10] Fried applied his theory of theatricality and absorption to this art form in a 2008 book titled *Why [this art form] Matters As Art As Never Before*. In it, he discusses the work of Andreas Gursky, Cindy Sherman and Diane Arbus.

ANSWER: **photography**

15. Some commentators claim that a saying of Jesus about one of these animals in the Gospel of Matthew is actually a reference to a gate in Jerusalem. For 10 points each:

[10] Name this type of animal. In most translations of the Gospel of Matthew, Jesus tells a rich young man that it is easier for one of these animals to pass through the eye of a needle than for a rich man to enter the kingdom of God.

ANSWER: **camels**

[10] In a story from the Old Testament, this woman draws water from a well for Eliezer and his ten camels; Eliezer subsequently offers to take this sister of Laban back to Canaan with him.

ANSWER: **Rebecca**

[10] In the Qur'an, God sends a she-camel to the pre-Islamic Arabs of the Thamud tribe to confirm the message of this prophet. Despite this prophet's warnings, the Thamud hamstring the camel, and God destroys them.

ANSWER: **Saleh** [or **Salih**]

16. After using this technique, a catapult can be used to propel the fragments into a collection tube, or fragments can be isolated by gravity. For 10 points each:

[10] Name this technique in which single cells can be cut out of a piece of tissue under a microscope using a beam of coherent light.

ANSWER: **laser capture microdissection** [or **laser-assisted microdissection**; or **laser microdissection**; or **LCM**; or **LAM**; or **LMD**; prompt on **dissection** or **microdissection**]

[10] The laser used in laser capture microdissection usually has a wavelength in this range, which is also the range of light that lights up ethidium bromide. Exposure to this range of the EM spectrum increases the risk of skin cancer.

ANSWER: **UV** [or **ultraviolet**; accept **UV-A**; accept **UV-B**; accept **UV-C**]

[10] Tissues that undergo laser capture microdissection can be stained using this dye, which stains nuclei purple while its counter-stain, eosin, colors cytoplasm pink.

ANSWER: **hematoxylin**

17. In his treatise *On the Latin Language*, Varro claims that this deity was the "principle god" of the Etruscans. For 10 points each:

[10] Name this god, who in post-classical art was often depicted as an old crone. In most stories, he disguises himself as that crone to seduce a wood nymph.

ANSWER: **Vertumnus**

[10] In the *Metamorphoses*, Vertumnus's cautionary tale to Pomona is about this maiden, who spurned the advances of Iphis, and mocked him. She was turned to stone after she mocked Iphis at his funeral.

ANSWER: **Anaxarete**

[10] Ovid compares Vertumnus's sweet kisses with that of this actual witch, who turns the men of Odysseus into swine.

ANSWER: **Circe** [or **Kirke**]

18. During the introduction of Anson Hunter, these people are described as “soft where we are hard, and cynical where we are trustful.” For 10 points each:

[10] Name this group of people who, according to an F. Scott Fitzgerald story, are “different from you and me.”

ANSWER: the very **rich**

[10] An unnamed “someone” responds to Fitzgerald by quipping “yes, they have more money” in this Ernest Hemingway story about a dying safari hunter who imagines he is being flown to the title location.

ANSWER: “The **Snows of Kilimanjaro**”

[10] The rebuttal was erroneously attributed to Hemingway himself by this editor of Fitzgerald’s *The Crack-Up*, who also prepared *The Last Tycoon* for publication. This critic’s own fiction includes *Memoirs of Hecate County*.

ANSWER: Edmund **Wilson**

19. This phenomenon occurs in a horizontal liquid layer heated from below and cooled from above, and results in periodically ordered thermal cells which rotate in alternating directions. For 10 points each:

[10] Identify this regime, the onset of which in the case of two free isothermal boundaries occurs for a value of quantity 27 over 4 times π to the 4 th of a certain dimensionless number.

ANSWER: **Rayleigh-Bennard** convection or instability [accept names in either order; prompt on convection]

[10] Henri Bennard co-names a form of thermal convection with Carlo Marangoni, who first demonstrated convection at a liquid interface solely due to a gradient in this quantity. This quantity’s variation due to temperature is given by the Eotvos (“ert-versh”) equation and it is responsible for capillary action.

ANSWER: **surface tension**

[10] This technique often employed in fluid stability analysis neglects variations in density except when it is multiplied by the gravitational constant g . This allows one to reduce the continuity equation to the fact that the velocity field is divergence-free and simplify the Navier-Stokes equations.

ANSWER: **Boussinesq** approximation

20. This man was praised by Kenesaw Mountain Landis for his appearances on the radio quiz show *Information Please* and was known to read philosophy and physics textbooks in the dugout. For 10 points each:

[10] Name this light-hitting catcher known as the most intellectual player in baseball during the 1930s. He served as an OSS spy during World War II.

ANSWER: Moe **Berg** [or Morris **Berg**]

[10] While accompanying stars such as Babe Ruth on a successful 1934 tour, Berg secretly filmed this city’s skyline and harbor. This city was later targeted in the Doolittle Raid.

ANSWER: **Tokyo**

[10] The OSS sent Berg to Switzerland to attend a lecture given by this man. Berg decided not to kill this prominent member of the German nuclear program after determining that the Nazis were not close to developing an atomic bomb.

ANSWER: Werner **Heisenberg**