

2021 ACF Fall

Packet A by NYU A, Tennessee A, Virginia A

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Tossups

1. This poet noted that only a person whose "strenuous tongue can burst Joy's grape" will be among the "cloudy trophies" of the title concept in a poem that opens, "no, no, go not to Lethe." In another poem, this poet wrote that the "Queen-Moon is on her throne" and exclaims "O, for a draught ("draft") of vintage!" This poet addressed a "Dryad of the trees" and asked "was it a vision, or a waking dream?" in a poem from which F. Scott Fitzgerald took the title for *Tender is the Night*. This poet described an object as a "still unravish'd bride of quietness" in a poem that states "Beauty is truth, truth beauty." For 10 points, name this British Romantic poet of "Ode to a Nightingale" and "Ode on a Grecian Urn."

ANSWER: John **Keats** (the unnamed poem is "Ode on Melancholy")
<British Literature>

2. One historian noted how this president "[anticipated] contending viewpoints" in examining how he handled dissent from cabinet members Caleb Smith and Montgomery Blair. The "political genius of [this president]" was chronicled by Doris Kearns Goodwin's award-winning biography of him, *Team of Rivals*. This president gave a speech in which he promised "malice towards none" and "charity for all." This president earlier issued an executive order following a victory at the Battle of Antietam. For 10 points, name this president of the United States who passed the Emancipation Proclamation and gave the Gettysburg Address.

ANSWER: Abraham **Lincoln**
<US History>

3. It's not *Lakmé*, but during a Flower Duet in this opera, the soprano and her mezzo servant pluck every flower in the garden to decorate a house overlooking the harbor. In Act 1 of this opera, relatives at a wedding shout "Hou!" at the protagonist for her conversion at the Mission. The title 15-year-old soprano in this opera says that her lover will call her "little wife" and "scent of verbena" as she waits for a thread of smoke from a naval ship in "Un bel di, vedremo." That aria is delivered to allay Suzuki's doubts by a woman who calls herself "Madama B. F. Pinkerton." For 10 points, identify this opera by Giacomo Puccini in which Cio-Cio San ("cho cho san") commits seppuku.

ANSWER: **Madame Butterfly** [or **Madama Butterfly**]
<Other Fine Arts>

4. Forms of these substances with high Lundquist numbers undergo a form of "reconnection" anomalously fast. Longitudinal space charge waves in these substances experience Landau damping. These substances can be confined in a z-pinch. The Saha equation can only be used to describe these substances when they have a large Debye ("de-BAI") length. The nonthermal variety of these substances can be used to power MHD generators. Tokamaks use magnetic fields to confine these substances. The reactants in nuclear fusion are always in this state of matter. For 10 points, name this fourth state of matter, an ionized gas that comprises most stars.

ANSWER: **plasmas**
<Physics>

5. Judge John Cooper used a state's Parents' Bill of Rights to support these policies. A June 2020 report by Goldman Sachs in support of this policy argued that it would prevent a potential GDP cut of five percent. Robert Redfield reversed his position on this policy after a study of 140 customers at a Missouri hair salon. The Paris Independent School District used a dress code change to circumvent Governor Greg Abbott's executive order banning this policy in Texas. Several states have reinstated this policy indoors due to the spread of the Delta variant. For 10 points, name this policy that requires people to wear a certain item in order to prevent the spread of COVID-19.

ANSWER: **mask mandates** [accept any answer about **obligating** people to wear face **coverings** in certain contexts; accept "Protecting the Federal Workforce and **Requiring Mask-Wearing**"]

<Current Events>

6. This man's name comes from his mother's statement that "I have possessed a man by the favour of the Lord" following this man's birth. A descendant of this man, whose name combined "Tubal" and this man's name, was the first blacksmith. This man moved east to settle in the Land of Nod. This eldest brother of Seth received a mark that would pay back sevenfold on anyone who attacked him. This man offered a sacrifice from his crops that did not receive favor, while his brother was regarded for sacrificing sheep. After committing a certain action, this man asked God, "Am I my brother's keeper?" For 10 points, name this first son of Adam and Eve who murdered Abel.

ANSWER: **Cain**

<Religion>

7. In the presence of a target, toehold switches become a functional form of this molecule. A motif named for Kozak found in this molecule is an initiation site for a process in which this molecule is sequentially fed through adjacent aminoacyl (uh-MEE-no-AY-sil), peptidyl, and exit sites. The "pre-" form of this molecule is processed by the spliceosome ("SPLAI-so-zome"), which removes its introns. This molecule's poly-A tail and 5-prime cap protect it from cytoplasmic enzymes after it leaves the nucleus. This molecule is created complementary to a template strand by transcription. For 10 points, name this single-stranded nucleic acid that carries genetic information from the nucleus to the ribosomes.

ANSWER: **mRNA** [or **messenger RNA** or **messenger ribonucleic acid**; prompt on **RNA** or **ribonucleic acid**]

<Biology>

8. It's not Russia, but after this country's King Alexander III fell to his death from a horse, he was succeeded by his granddaughter, Margaret, Maid of Norway. Another king of this country was derisively known as "Toom Tabard," and he was crowned at the Abbey of Scone, which held a Stone of Destiny. That king, John Balliol, established the Auld Alliance with France. He was succeeded by the victor of the Battle of Bannockburn, effectively ending Edward II's invasion of this country. For 10 points, name this country that was led in its first war of independence against England by such men as Robert the Bruce and William Wallace.

ANSWER: **Scotland**

<European History>

9. While a character in a play by this author is in his bedroom with a "strange machine" that has a long lever, a woman called "The Favourite" plucks hairs from his armpit. In a play by this author, one character addresses his father who is brought in wearing handcuffs by saying, "I have no father, eater of left-overs." In a play by this author that contains the "Dance of the Lost Traveller," a schoolteacher is unable to marry Sidi because he refused to pay her bride price. In a different play by this author, Simon Pilkings tries to prevent Elesin from committing ritual suicide. For 10 points, the plays *The Lion and the Jewel* and *Death and the King's Horseman* were written by what Nigerian playwright?

ANSWER: Wole **Soyinka**

<World/Other Literature>

10. This thinker originated a Latin phrase meaning "freedom to philosophize" as a precursor to the concept of academic freedom. In one work, this thinker calls for a separation between religion and philosophy and disputes Moses' authorship of the entire Torah. This thinker advises readers to live in "obedience to reason" in contrast with various affects he lists in a section from one text titled "Of Human Bondage." A posthumously published text by this thinker refutes Descartes' claim that the mind and body are separate substances and popularized Pantheism in Europe. For 10 points, name this Dutch Jewish philosopher who wrote the *Theological-Political Treatise* and *Ethics*.

ANSWER: Baruch **Spinoza**

<Philosophy>

11. In this novel, the protagonist learns that he has "slain the sweethearts" of two young ladies after he shoots two monkeys chasing a pair of women. While dining at an inn, the protagonist of this novel meets six deposed monarchs who all relate their intention to "spend the Carnival at Venice." According to one character in this novel, Jacques the Anabaptist drowned because the Bay of Lisbon "had been made on purpose for [him] to drown." The title character of this novel is banished from the castle of Thunder-ten-Tronckh due to his love for Cunégonde ("kew-nay-goned"). For 10 points, Dr. Pangloss expresses his idea of the "best of all possible worlds" in what satirical novel by Voltaire?

ANSWER: **Candide, ou l'Optimisme**

<European Literature>

12. This thinker imagined a future in which everyone is eight times wealthier in his essay "Economic Possibilities for Our Grandchildren." This thinker's proposal that Germany issue an Ally-backed bond was rejected by Woodrow Wilson at the Treaty of Versailles. This thinker is the namesake of a "cross" that plots aggregate income against total spending. This author of *The Economic Consequences of the Peace* often names a multiplier measuring the effect of government spending on aggregate demand, which he used to advocate deficit spending. For 10 points, name this British economist, who is most famous for his work *The General Theory of Employment, Interest, and Money*.

ANSWER: John Maynard **Keynes**

<Social Science>

13. An artist from this country intended to "transport you to a quiet cosmos" with her immersive Infinity Mirror Rooms. That artist from this country is notable for covering objects like pumpkins with her characteristic polka dots. A performance artist from this country invited audience members to use scissors to remove pieces of her clothing in her work *Cut Piece*. That Fluxus art movement member from this country staged "bed-ins" against the Vietnam War with her husband. An art style from this country translated as "pictures of the floating world" includes a woodcut of a large wave. For 10 points, name this country home to Yayoi Kusama and Yoko Ono, as well as *ukiyo-e* artists like Hokusai.

ANSWER: **Japan**

<Painting/Sculpture>

14. The dominant presence of *Vibrio carchariae* in this type of ecosystem may cause acroporid animals to develop white band disease. The first monograph by Charles Darwin concerned the "structure and distribution" of these ecosystems. Types of these ecosystems include "apron," "patch," and "fringing," the latter of which may develop into an atoll. When these ecosystems' namesake animals experience stress, they expel zooxanthellae ("zo-oh-ZAN-thel-lay"), causing them to become bleached. Colonies of polyps comprise the calcium carbonate-rich organisms that dominate these ecosystems. For 10 points, name these aquatic ecosystems, the largest of which is named for a "Great Barrier."

ANSWER: **coral reefs** [prompt on partial, accept **barrier** reefs before mention, prompt on oceans or answers indicating an aquatic ecosystem]

<Other Science>

15. This man launched the August Revolution in his country after the surrender of an occupying army. This man first came to prominence when he unsuccessfully presented an eight-point plan for his country's self-determination at the Versailles peace talks. This man took power in his country after the abdication of Bảo Đại. Forces commanded by this man's leading general Võ Nguyên Giáp ("voh ngwee-an zap") emerged victorious at the Battle of Điện Biên Phủ ("d'yen b'yen foo). This man supplied forces against the government of Ngô Đình Diệm ("ngoh din yee-um") through his namesake trail. For 10 points, name this founder of the Việt Minh and first president of North Vietnam.
ANSWER: **Hồ Chí Minh** [or **Nguyễn Sinh Cung** or **Nguyễn Tất Thành** or **Nguyễn Ái Quốc** or **Bác Hồ** or **Uncle Hồ**; prompt on **Bác** or **Uncle** or **Nguyễn**]

<World History>

16. This person betrayed Deiphobus by hiding his sword before a battle. While hiding in Egypt, this person was replaced by a facsimile made of clouds. To torment a group of hidden warriors, this person mimicked the voices of their wives. This person was kidnapped by Theseus but later rescued by the Dioscuri ("die-uh-SKOO-ree"). The Oath of Tyndareus was sworn by the suitors of this woman, who ultimately married Menelaus ("men-eh-LAY-uss"). Aphrodite offered this woman to a prince in exchange for a golden apple labelled "For the fairest one." "The face that launched a thousand ships" belonged to, for 10 points, what beautiful woman whose elopement with Paris started the Trojan War?

ANSWER: **Helen**

<Mythology>

17. In this story, one character completes a tap routine after her brother refuses to dance to "The Tennessee Waltz." Another character in this story relates how a boy once ate a watermelon left for her on her front porch because the initials "E.A.T." were carved into it. "The fat boy with the happy laugh," Red Sammy, declares the title sentiment of this story after the central group stops to eat lunch in The Tower. The antagonist of this story states that if somebody was there "to shoot her every minute of her life," the grandmother "would have been a good woman." For 10 points, a family travelling to Florida is killed by The Misfit and his gang in what story written by Flannery O'Connor?

ANSWER: "A **Good Man is Hard to Find**"

<US Literature>

18. Deltahedral clusters of this element and hydrogen are characterized using PSEPT, which gives them names like "nido" and "closo." A complex with this element as its central atom undergoes transmetalation with a palladium-containing intermediate in the Suzuki coupling. It's not aluminum, but the trifluoride of this element has a trigonal planar geometry and is a common Lewis acid. Like beryllium, this element often violates the octet rule by creating compounds while having only six valence electrons. For 10 points, name this lightest metalloid with atomic number 5 and atomic symbol B.

ANSWER: **boron** [accept **B** before mention]

<Chemistry>

19. *Naufugia*, the Latin word for "shipwreck," often occurred in this non-water-related activity, which typically featured objects called *spinae*. Many participants in this activity hailed from Lusitania, including Gaius Appuleius Diocles, who is hailed as the richest athlete of all time. The *biga* and *quadriga* were two things used in this activity. An instance of this activity led to violence between the Green and Blue factions of the *demes* in the Nika Riots. The Circus Maximus and Hippodrome were the site of, for 10 points, what ancient sport that saw competitors race around tracks in horse-pulled carts?

ANSWER: **chariot races** [accept equivalents like **chariot racing**, prompt on **charioteering** or **races** or **racing**]

<Other History>

20. In a *largo* movement in this work, the first and second violin parts are marked *pianissimo sempre*. A post-minimalist piece by Max Richter "recomposed" this work. An allegro part of this work includes the "great noise of guns and dogs" according to an accompanying sonnet. The violas play an ostinato motif that represents a barking dog in a section of this work, while another section depicts a trembling shepherd and thunder. This set of pieces begins its composer's opus 8, *The Contest Between Harmony and Invention*. For 10 points, name this set of four violin concertos by Vivaldi that include "Winter" and "Spring."

ANSWER: *The **Four Seasons*** [or *Le **quattro stagioni***, accept "**Spring**" before "great"]

<Classical Music>

Bonuses

1. One thinker theorized that violence was both the essence of this process and necessary to resist it and argued that universalist Enlightenment philosophy hurts those subjugated by this process. For 10 points each:

[E] Name this process whose "settler" form is when people emigrate with the goal of creating a society to replace that of indigenous people. Anti-imperialists like Diderot criticized European use of this process in the East Indies.

ANSWER: **colonialism** [accept word forms like **colonization**]

[H] This work of anti-colonial philosophy discusses how violence by colonized workers and the *lumpenproletariat* is crucial to destabilize the social order created by colonizers and colonized intellectuals.

ANSWER: *The Wretched of the Earth* [*Les Damnés de la Terre*]

[M] *The Wretched of the Earth* is by Frantz Fanon, who also wrote about how the "Algerian" variety of this institution relies on rigid roles. Some queer theorists reject this institution's "nuclear" type as heteronormative.

ANSWER: **family** [accept **nuclear family**; prompt on **marriage**]

<Philosophy>

2. This vitamin increases the level of phosphate circulating in the blood. For 10 points each:

[M] Name this vitamin whose deficiency causes rickets. Calcitriol ("CAL-si-tree-awl") is this vitamin's active form.

ANSWER: vitamin **D** [accept vitamin **D₂** or vitamin **D₃**]

[E] Vitamin D₃ is often synthesized when 7-dehydrocholesterol reacts with the B form of this radiation. Exposure to this form of radiation during sunbathing may cause DNA damage and cancer.

ANSWER: **ultraviolet** light [or **ultraviolet** radiation or **UV** light or **UV** radiation or **UVB** light or **UVB** radiation]

[H] This hormone upregulates vitamin D production in the kidney. This hormone increases calcium levels in the blood and is produced by chief cells.

ANSWER: **parathyroid** hormone [or **PTH**]

<Biology>

3. David Datuna's performance art piece *Hungry Artist* involved removing and eating one of these objects that was duct taped to the wall to form Maurizio Cattelan's artwork *Comedian*. For 10 points each:

[E] Name this fruit. Andy Warhol included a "peelable" one of these yellow fruits on his cover art for the album *Velvet Underground & Nico*.

ANSWER: **banana**

[H] Bananas and a statue are present in the foreground of this metaphysical artist's paintings *The Uncertainty of the Poet* and *The Transformed Dream*. This artist also painted *The Mystery and Melancholy of a Street*.

ANSWER: Giorgio de **Chirico**

[M] One of these things appears behind a brick wall in *The Uncertainty of the Poet*. The hazy figure of one of these things approaches a bridge with a rabbit in a J.M.W. Turner painting.

ANSWER: **trains** [or **locomotives**]

<Painting/Sculpture>

4. Arthur Aitken claimed that he lost a battle in this war because the opposing side had used tripwires to agitate a swarm of bees. For 10 points each:

[H] Name this war where Paul von Lettow-Worbeck's Askari and Ruga-Ruga fighters harassed a much larger force led by Jan ("YON") Smuts during its East African campaign.

ANSWER: **World War I** [or **WWI**; or the **Great War**]

[M] Lettow-Worbeck's force primarily operated in this present-day country, which became a British colony after the war. This country was later led by Julius Nyerere after its independence from British rule.

ANSWER: **Tanzania** [United Republic of **Tanzania**; or *Jamhuri ya Muungano wa **Tanzania***]

[E] The German forces in the East African Campaign were dealt a blow in morale when one of these dirigibles carrying supplies failed to reach them. The *Hindenburg* was one of these giant balloon-like crafts.

ANSWER: **zeppelin** [prompt on airship]

<European History>

5. While reading Byron, one character in a work set in this city angrily yells "Stop!" to his crying infant son to silence his wailing. For 10 points each:

[H] Name this setting of "A Little Cloud." In a different work set in this city, a boy visits a bazaar to buy something for Mangan's sister but is unable to get anything because he arrived too late.

ANSWER: **Dublin**, Ireland

[E] "A Little Cloud" and "Araby" are stories that appear in *Dubliners*, a short story collection written by this Irish author of *A Portrait of the Artist as a Young Man* and *Ulysses*.

ANSWER: James **Joyce** [or James Augustine Aloysius **Joyce**]

[M] After leaving a Christmas party in this final story of *Dubliners*, Gabriel Conroy's wife tells him about Michael Furey, a boy she used to love as a teenager who passed away at the age of 17.

ANSWER: "The **Dead**"

<European Literature>

6. In this general type of lab technique, a solution with known concentration and volume is slowly added to an analyte, often using a burette. For 10 points each:

[E] Name this lab technique. In the acid-base type of this lab technique, the endpoint is marked by the color change of a pH sensitive indicator.

ANSWER: **titration**

[M] One common method of titration is named for this element. The ability of an anion of this halogen to form a deeply-colored complex with starch is useful in marking the endpoint of titrations.

ANSWER: **iodine** [or **I**; accept **triiodide** or **iodine**-starch complex]

[H] In an iodometric titration, sources of this anion are commonly used as a reducing agent to generate iodide. This anion has chemical formula $S_2O_3^{2-}$ ("S two O three, two minus").

ANSWER: **thiosulfate**

<Chemistry>

7. In a short film by this director, the mother Joan burns the memoir *Cocoon Man* after stabbing her son Isaiah to death with a fire poker. For 10 points each:

[H] Name this director of *The Strange Thing About the Johnsons*. A film by this director ends with the protagonist smiling through tears as Christian is burned to death in a triangular temple while inside the skin of a disemboweled bear.

ANSWER: Ari **Aster**

[E] Aster's film *Midsommar* is mostly set in a commune in this country during a midsummer celebration. The director of *The Seventh Seal*, Ingmar Bergman, was from this Scandinavian country.

ANSWER: **Sweden** [or Kingdom of **Sweden**; or *Konungariket Sverige*]

[M] *Midsommar* includes several tilts away from the characters toward this object to emphasize its role in their degradation. Akira Kurosawa's *Rashomon* was one of the first films to include shots pointing at this object.

ANSWER: the **Sun** [or **Sol**]

<Other Fine Arts>

8. Dhū Nuwās ("dhoo nu-WAS") violently converted much of this modern-day country's Christian population to Judaism before committing suicide by riding his horse into the sea. For 10 points each:

[H] Name this modern-day country whose Jewish population can be traced back to the kingdom of Himyar. The earlier kingdom of Saba' in this country exported frankincense and myrrh.

ANSWER: Republic of **Yemen** [or *al-Jumhūrīyah al-Yamanīyah*]

[E] Many Jews immigrated to Himyar from this empire's province of Judea after the Bar Kokhba revolt. This empire's ruler Augustus Caesar, ordered an expedition to Yemen, which was known in this empire as Arabia Felix.

ANSWER: **Roman** Empire [or **Rome**; or *Imperium Rōmānum*; or *Basileía tōn Rhōmaíōn*]

[M] *Description acceptable*. In the 20th century, Operation Magic Carpet assisted Yemenite Jews with performing this action, known in Hebrew as "*aliyah*." The Law of Return gives Jewish people the right to perform this action.

ANSWER: **immigrating to Israel** [accept any answer indicating people **returning** to **Israel**; prompt on answers about **Zionism**; or the **founding of Israel**; or **obtaining Israeli citizenship**; prompt on **evacuation**; prompt on **ascent** or **the act of going up**]

<World History>

9. After this man and Kathryn Garcia formed a pact for their supporters to rank them both, Eric Adams accused them of trying to prevent a Black candidate from being elected. For 10 points each:

[M] Name this politician, who finished fourth in that mayoral primary. This proponent of universal basic income earlier gained fame during his 2020 run for president.

ANSWER: Andrew **Yang**

[E] Eric Adams is seeking to be mayor of this city currently led by Bill DeBlasio. During 9/11, this city was led by Rudy Giuliani.

ANSWER: **New York** City [accept **NYC**]

[H] In addition to ranked choice voting, New York elections use this system where a candidate can be nominated by multiple parties. As a result of this system, the Working Families Party endorsed Democrat Maya Wiley for mayor.

ANSWER: electoral **fusion** [accept **fusion** voting]

<Current Events>

10. When passing through a wall of fire in the second section of this poem, one character sees the creator of the "sweet new style" of poetry. For 10 points each:

[M] Name this poem whose second section revolves around a journey up a mountain with seven terraces that culminates with the narrator meeting Beatrice who becomes his guide.

ANSWER: The *Divine Comedy* [or *Divina Commedia*]

[E] This poet coined the term for *Dolce Stil Novo*, or "sweet new style," in *Purgatorio*, which follows *Inferno* as part of his epic poem *The Divine Comedy*.

ANSWER: Dante Alighieri [accept either portion]

[H] *Dolce Stil Novo* has its roots in poetry written in this language. In *Purgatorio*, Dante sees Arnaut Daniel, a troubadour who is credited with inventing the sestina in this language.

ANSWER: Occitan [or Provençal]

<European Literature>

11. In an 1837 speech, this politician stated that slavery "is, instead of an evil, a good—a positive good." For 10 points each:

[M] Name this politician and member of the Great Triumvirate of early 19th-century U.S. politics who served as Vice President under John Quincy Adams and Andrew Jackson.

ANSWER: John Caldwell Calhoun

[E] Calhoun was from this state, and after resigning as Jackson's Vice President, penned its namesake *Exposition and Protest* during the Nullification Crisis. The Civil War began with the shelling of Fort Sumter in this state.

ANSWER: South Carolina

[H] Under John Tyler and James K. Polk, Calhoun served a stint in this cabinet post after the death of his predecessor Abel P. Upshur. A later holder of this post was the target of an assassination attempt by Lewis Powell.

ANSWER: Secretary of State

<US History>

12. Answer the following about Stokes' theorem, for 10 points each:

[M] Stokes' theorem relates the surface integral of this operator applied to a vector field to the line integral of that vector field. This operator is written as "del cross."

ANSWER: curl

[E] Stokes' theorem can be reduced to Green's theorem for a curve that can be embedded into a plane with this many dimensions. The Cartesian plane has this many dimensions, as it has no z -axis.

ANSWER: two

[H] The generalized Stokes theorem is a statement about the integration of different forms on these objects, which are topological spaces that locally resemble Euclidean ("yoo-KLI-dee-un") space near each point.

ANSWER: differential manifolds

<Other Science>

13. For 10 points each, answer some questions about the World Chess Championship:

[M] This grandmaster defeated Boris Spassky at the 1972 World Chess Championship in Reykjavik ["RAKE-ya-vick"]. He would not play another public game until 1992, and became notorious for his intensely antisemitic views.

ANSWER: Bobby **Fischer**

[H] In the 2018 World Chess Championship, Magnus Carlsen used this opening every time he was on black. In this defense, black responds to white playing a pawn to e4 by moving their own pawn to c5.

ANSWER: **Sicilian** Defense

[E] The majority of Carlsen's Sicilian Defenses were the Sveshnikov variation, in which this piece moves to e5 on black's fifth move. Each side has eight of these pieces, which move forward and capture diagonally.

ANSWER: **pawns**

<Pop Culture>

14. When a woman turns on a radio to play "Wien, Wien, nur du allein," a man stops performing this activity to throw the radio out of the window. For 10 points each:

[H] Name this activity that Mitch says "shouldn't be played in a house with women" after a man starts beating his wife for calling him a "drunk animal thing."

ANSWER: **poker** [prompt on playing cards or gambling]

[M] Soon after beating his wife for interrupting his poker game in this play, Stanley slightly sobers up and sees that his wife left the house, causing him to run out the front door and scream, "Stella!"

ANSWER: *A **Streetcar Named Desire***

[E] *A Streetcar Named Desire* was written by this American playwright of *Cat on a Hot Tin Roof*.

ANSWER: Tennessee **Williams** [or Thomas Lanier **Williams** III]

<US Literature>

15. Thor and Loki traveled to this figure's castle in Jötunheimr ("YOH-tun-hyme") and lost a series of contests to him and his company. For 10 points each:

[H] Name this giant who then revealed that the contests had been rigged all along before vanishing with his castle into midair.

ANSWER: **Útgarda-Loki** [or **Utgarda-Loki** or **Utgardsloki**; accept **Skrýmir**]

[E] During a drinking contest, Thor failed to drain his mead horn. Útgarda-Loki ("OOT-guard-LOW-key") revealed that the horn had actually been connected to this general location, and Thor's gigantic gulps had caused the tides.

ANSWER: **ocean** [accept **sea**; prompt on water]

[M] Although he claimed that he can eat faster than anyone, Loki lost an eating competition to a being named Logi, who turned out to be the personification of this substance.

ANSWER: **fire**

<Mythology>

16. Answer the following about Joseph Larmor, for 10 points each:

[H] Larmor names a form of this phenomenon, which is a change in the first Euler angle. The Lense-Thirring form of this effect is caused by relativistic frame-dragging.

ANSWER: **precession** [accept Larmor **precession** or Lense-Thirring **precession**]

[M] The Larmor formula, which calculates the amount of power from a point charge, includes a term for the "proper" form of this quantity. One form of this quantity is calculated as v squared over r .

ANSWER: **acceleration** [prompt on a, accept centripetal **acceleration**, do not accept "angular acceleration"]

[E] Larmor also studied periodicity in "dark spots" on this object, which is orbited by the Earth in Copernican heliocentrism.

ANSWER: **sun** [accept **sol**]

<Physics>

17. A 1919 sonata for this instrument by Rebecca Clarke won first place in a competition held by Elizabeth Sprague Coolidge. For 10 points each:

[E] Name this four-stringed instrument slightly larger than a violin. Players of this instrument use alto clef.

ANSWER: **viola**

[H] This composer wrote a viola concerto for Lionel Tertis. This English composer of the coronation march *Crown Imperial* also wrote the cantata *Belshazzar's Feast*.

ANSWER: William **Walton**

[M] After this composer's death from leukemia, his viola concerto was completed by his son Peter. This Hungarian composer included a "Game of Pairs" section in his *Concerto for Orchestra*.

ANSWER: Béla **Bartók** [or Béla Viktor János **Bartók**]

<Classical Music>

18. Name the following about the Oriental Orthodox Churches, who rejected the Council of Chalcedon, for 10 points each.

[H] This Oriental Orthodox Church regards St. Mark as their first patriarch. A verse beginning "Sing to the Lord a new song" begins this church's Feast of the Martyrs, or El-Nayrouz.

ANSWER: **Coptic** Orthodox Church of Alexandria

[M] Opponents of the Oriental Orthodox accuse them of following monophysitism, which denies this aspect of Christ. People arguing that Christ had this trait often point to John's pronouncement that "the Word became flesh."

ANSWER: **humanity** [accept equivalents like **being human** or answers indicating that he had *both human and divine* aspects]

[E] Oriental Orthodoxy shares this creed with the Eastern Orthodox and Catholic Churches. This creed, which affirms the trinity and Jesus' humanity, is named after the first ever ecumenical council, which Constantine called.

ANSWER: **Nicene** Creed [or **Symbolum Nicaenum** or Council of **Nicaea**]

<Religion>

19. A character who lives in this country is haunted by "dreams of murder" and believes that the only part of her body she can trust is her breasts because "nothing can be killed by them." For 10 points each:

[H] Name this country home to the author of *The Vegetarian*. Another author from this country wrote a novel in second-person about a family's search for their mother after she is lost in a subway station, *Please Look After Mom*.

ANSWER: **South Korea** [or **Republic of Korea**; prompt on **Korea**, do not accept or prompt on "North Korea"]

[E] In *The Vegetarian*, a character fantasizes about Yeong-hye's birthmark which is shaped like one of these objects. In Kim Sowol's poem "Azaleas," the speaker picks these objects from Mount Yak and scatters them on the ground.

ANSWER: **flowers** [prompt on **plants**]

[M] A novel by this author begins with Kikuji recalling his experience of seeing a woman's birthmark on her breast. In addition to *Thousand Cranes*, this author wrote about Shimamura's affair with Komako in another novel.

ANSWER: Yasunari **Kawabata** [accept names in either order] (The second novel is *Snow Country*.)

<World/Other Literature>

20. For 10 points each, answer some questions about the lives of women in the Roman world:

[E] The Lex Oppia banned women from wearing lavish clothing of this color. This color was widely seen as a symbol of nobility and its dye was collected from the murex sea snail in ancient times.

ANSWER: **purple**

[M] One important religious position held exclusively by women was this group of female priests. They were held to be incorruptible, and tended to the sacred fire of the goddess of the hearth.

ANSWER: **Vestal** Virgins

[H] This powerful woman was given the rights of the Vestal Virgins, despite not being one herself. This wife of Claudius was most likely assassinated on the orders of her son Nero.

ANSWER: **Agrippina** the Younger

<Other History>