

Michigan Winter Tournament

"The Holy Roman Empire of Tournaments"

Edited by: Harris Bunker, Emmett Laurie, Evan Lynch, Matt Mitchell, Eric Mukherjee,
Jacob O'Rourke, Rudra Ranganathan, Conor Thompson, Jeremy Tsai, and Chandler West

Written by: The editors, Mollie Bakal, Austin Foos, Beverly Fu, Colton Graham, James Hadley, Sean Higgins,
Tyler McMaken, Ameya Phadnis, Aleija Rodriguez, James Stevenson, and Allan VanZandt

Packet 11

Tossups:

1. **While applying power transition theory to this country, scholars such as Tammen have argued that this country will become more belligerent over time. An *Economist* article about this country mentions how leaders have not implemented widespread economic reform aside from opening 24-hour convenience stores. Only Myanmar may have overstated its income more than this country. Contrary to this country's (*) NBS, some economic researchers have preferred to estimate this country's GDP by using light intensity at night. In 2017, this country invested the most money into renewable energy, particularly solar, to counteract its status as the world's largest polluter. For 10 points, name this Asian country whose economic growth since the 1970s has been attributed to Dengism.**

ANSWER: The People's Republic of **China** [accept **PRC**] <Bunker, Other Social Science>

2. **A 1970 book on this philosopher asks how one can imagine Adam or a child happy. That book on this thinker also explains the relationship between this philosopher's thought and Nietzsche and was written by Gilles Deleuze ["Duh-looz"]. Controversy arose when this philosopher's writings were compared to "pure materialism" and thus atheism by Friedrich (*) Jacobi ["yah-cobee"]. The final section of one text by this thinker praises knowledge of the third kind which comes from God and argues that understanding God is the highest virtue. This philosopher rejected Cartesian dualism by instead positing that there is only substance in a work which develops prepositions about reality only from axioms and definitions. For 10 points, identify this rationalist philosopher who wrote his *Ethics* in geometric order.**

ANSWER: Baruch **Spinoza** [or Benedict de **Spinoza**] <Bunker, Philosophy>

3. *Note to players: either the original language term or the English translation is acceptable.* **A story first told in a work in this genre is the origin story for a magical horse named Bayard, who can understand human speech and carry all four of Aymon's sons at once. In a poem in this genre, Jean Bodel divided medieval Romances into three "matters;" the "Matter of France" is itself subdivided into three cycles of poems in this genre. In a poem in this genre, Pinabel challenges Thierry to a duel after the latter rules that (*) Ganelon had betrayed his leader. Laisses are the stanzas in this poetic genre. In a poem in this genre, the Saracen Marcile is defeated after the protagonist blows his temples out by blowing an oliphant horn to summon Charlemagne. For 10 points, name this medieval French poetic genre, which titles a poem about Roland.**

ANSWER: **chanson** [or **song**; or **chansons de geste**; accept **Chansons de Saisnes**; or **Song of Roland**; or **Le Chanson de Roland**] <Laurie, European Literature>

4. **A book about this piece used Schenkerian analysis to see how its composer achieved "through-composition and cyclic integration," and was written by James Webster. The trio of this piece's minuet features horns quoting a Gregorian chant. In the opening motif of this piece, violins descend from a high F sharp to a low A, then up to three D notes. The F-sharp major adagio of this symphony's final movement features oboe and horn solos and is marked with the words "nichts mehr," or "no more," and ends with a muted violin duet. This symphony in the unusual key of (*) F-sharp minor was written during a longer-than-expected summer stay at Eszterháza ["es-ter-hai-za"] to express homesickness. Performers are instructed to snuff out their candles as they leave the stage in, for 10 points, what 45th symphony of Joseph Haydn?**

ANSWER: "**Farewell**" Symphony [or **Abschieds**symphonie; accept Joseph **Haydn**'s Symphony No. **45** in F # minor before mention] <Hadley, Classical Music>

5. One fish species in these places was found to have a circadian rhythm lasting 47 hours. They're neither alive nor made of ice, but rings of structures that form in these locations can be used to form historical climate records. These locations might contain flowstones composed of calcium carbonate. Some of these landforms can be formed in igneous rocks when a hardened crust forms on top of a still-flowing (*) lava channel. Organisms living in these places might develop adaptations such as a lack of pigmentation or reduced eyesight. The solutional types of these landforms form through the natural dissolution of rock and are common in regions of karst topography. For 10 points, identify these landforms which might contain stalactites and stalagmites and include lava tubes.

ANSWER: **caves** [or **caverns**] <Thompson, Earth Science>

6. Post-war poor people in this country ate a dish made of stolen army surplus nicknamed "army base stew." This country modernized infrastructure by distributing raw materials to villages for free as part of the New Community Movement. This country formed Unit 684 in response to an unsuccessful attack on its President, the Blue House Raid; that leader was later shot by the head of the KCIA. Economic cooperation with this country's northern neighbor is part of its (*) Sunshine Policy. Conglomerates based in this country known as *chaebol* gradually replaced Japanese firms as the giants of this country's economy. The Miracle on the Han River names, for 10 points, the economic growth of what country, home to Samsung and Hyundai?

ANSWER: **South Korea** [or **Republic of Korea** or **ROK** or **Taehan-minguk** or **Hanguk**; prompt on **Korea**] <Laurie, World History>

7. This deity decapitates a crocodile to save an elephant named Gajendra after it prayed to him. This deity gave the sage Narada the face of a monkey, causing a princess to reject Narada's proposition. In Book 6 of the Bhagavata Purana, Ajamila reaches Vaikuntha after uttering the syllables of one of the names of this deity before death. This deity takes the form of the boar (*) Varaha to save Bhumi from Hiranyaksha. Ranganatha is a form of this deity depicted reclining on the serpent Shesha. Using the Sudarshana Chakra, this deity beheaded Shishupala when in the form of Krishna. For 10 points, name this preserver god in Hinduism with ten Avatars, identified as the supreme being in Vaishnavism.

ANSWER: **Vishnu** [accept **Narayana** and maybe others] <Ranganathan, Mythology>

8. The quadrupole type of these events is possible if neither Clebsch-Gordan coefficients nor reduced matrix elements vanish for rank-2 spherical tensors. In a canonical example of time-dependent perturbation theory, the probability of these events oscillates over time for a constant perturbation. The Einstein A and B coefficients give the rates of these events occurring. The (*) Laporte rule and other selection rules determine whether these events can occur. Excited state lifetime is equal to the reciprocal of the rate of these events, which correspond to the emission or absorption of a photon. For 10 points, identify these events in which an electron moves from one state to another.

ANSWER: state **transitions** [accept atomic **transition** or electron(ic) **transitions**; accept photon **emission** or **absorption** before mentioned] <Mitchell, Physics>

9. A poem describes performing this action while riding a "toy donkey" "never asking 'where are we going?'" These actions are compared to a carpenter who wants to "know which tools" but never asks "why build" in a poem that claims they have a "special language." The speaker alludes to this action with the lines "what a trash / to annihilate each decade" in a poem that claims it "is an art, like everything else. / (*) I do it exceptionally well." The lines "Razors pain you; / Rivers are damp" begin a poem recommending against this action. Before committing this action an author wrote "I don't think two people could have been happier than we have been." Dorothy Parker's "Resumé" is about, for 10 points, what action, which Virginia Woolf committed by walking into a river.

ANSWER: **suicide** [accept actions related to **suicide** notes, such as writing a **suicide** note, before "carpenter;" prompt on **dying** by asking "by what method?"] <Laurie, American Literature>

10. Two leaders with this name staged a mock re-enactment of the battle between the Horatii and the Curiatii that ended poorly when the battlers actually killed each other. Charlotte de Sauve, the mistress of a King with this name, was part of the "Flying Squadron," a group of ladies-in-waiting turned spies used by that King's wife. Anne de Joyeuse ["jwah-yuz"] was killed fighting for a King with this name at the Battle of Coutras; that King of this name was later ousted in the (*) Day of the Barricades. A King with this name built on the earlier Edict of St. Germain with a document that granted religious freedoms to the Huguenots, the Edict of Nantes. For 10 points, give this name of a former king of Navarre who quipped that "Paris is worth a mass," the founder of the Bourbon Dynasty.

ANSWER: **Henry** [accept **Henry IV** or **Henry III** of Navarre or **Henry III** of France or **Henry I**, Duke of Guise or **Henry II**] <Laurie, European History>

11. In a specific reaction of this type, the heating of oleic acid in the presence of potassium hydroxide results in palmitic acid and acetic acid and is often compared to a zipper. In addition to that reaction named for Varrentrapp, another reaction of this type yields a hydroxylamine after six electrons move in a five member intermediate. In addition to that syn-periplanar example, another reaction of this type requires an extremely (*) bulky base to favor antiperiplanar transition states. The alkene with the more substituted double bond is favored in one type of this reaction according to Zaitsev's rule. These reactions usually compete with substitution reactions. For 10 points, identify this type of reaction in which a functional group is removed from a molecule which comes in E1 and E2 varieties.

ANSWER: **elimination** reaction [accept **E1** or **E2** before mention; accept ~~degradation~~ up until "Varrentrapp" is read; accept **Cope elimination** or **Hoffman elimination**] <Bunker, Science - Chemistry>

-- This packet contains 22 tossups. Halftime is after tossup 11. --

12. Description acceptable. All of the inhabitants of this location are said to be of the same height as Adam and the same age as Jesus. Believers will be forced to cross a bridge to this location called the "straight path," upon which some will fall off. Upon passing through one of this location's eight gates, entrants to it are told "you have become pure." This location is home to beings known as (*) *houri*, meaning "fair" or "black-eyed," who accompany its inhabitants; various hadiths about which are the source of the claim that inhabitants of this location are entitled to 72 virgins. *Jahannam* is contrasted with, for 10 points, what location which the Quran asserts the righteous will enter after their death?

ANSWER: **jannah** [or any answers indicating the **Islamic** or **Muslim** idea of **heaven** or **paradise**; prompt on just **heaven** by asking "in what religion?"; prompt on the **afterlife**] <Thompson, Religion>

13. After riding twenty and then thirty leagues by boat, a character in this work uses the name "Old Man Becomes Young-Again-Man," in reference to a medicinal plant. After the death of his companion, the protagonist of this work makes a sacrifice to Bibbu, "meat carver of the underworld," in his friend's honor. The first version of this work, that was split up into (*) eleven sections was created by the philosopher-priest Sin-leqi-unninni. A hairy character in this epic is offered clothes for the first time after he has sex with Shamhat, a prostitute, for six days and seven nights. That man, Enkidu, dies in this epic poem after helping his friend defeat the Bull of Heaven. For 10 points, name this Mesopotamian epic poem about the title king of Uruk.

ANSWER: *The Epic of Gilgamesh* [or *Shūtur eli sharrī*, or *Sha naqba īmurū*, or *Surpassing all other kings*, or *He who saw the abyss*, or *He who sees the unknown*] <Rodriguez, World/Other Literature>

14. Robert Chanler satirized a leader of this art movement by painting him as a monkey teaching others to paint. This movement is generally regarded to have started with a painting of a group of nude women enjoying tea on a bay. A portrait of an artist from this movement was painted during a fishing trip and depicts him with a red-tinged (*) beard and a pipe. That artist from this movement often utilized bright shades of blue, such as his paintings of a *Woman with a Hat* and a *Blue Nude*. An artist from this movement depicted six nudes holding hands and dancing in the background of a larger work. For 10 points, name this early 20th-century art movement which included André Derain ["de-ronn"] and the painter of *The Joy of Life* and *The Red Room*, Henri Matisse.

ANSWER: **Fauvism** [or Les **Fauves**; or The **Fauves**] <West, Painting>

15. In 2015, Donald Trump installed a placard at his golf course along this river reading "The River of Blood" to commemorate a battle that never actually happened. White's "Comanches" were established to protect this river. The Joint Committee on the Conduct of War was established after a battle in which Union troops had to cross this river and Edward Baker became the first sitting US Senator to die in battle. Battle plans were discovered in (*) cigar wraps before a battle that forced one side to retreat across this river. This river names both the Confederate Army that lost at the First Battle of Bull Run and the reorganized Army of Northeastern Virginia under George McClellan. For 10 points, name this river, on which Washington D.C. was built.

ANSWER: **Potomac** River <Laurie, American History>

16. One form of this disease can be treated by Fingolimod, a sphingosine-1-phosphate receptor modulator. Characteristics of this disease include a worsening of symptoms due to exposure to higher than usual temperatures, or Uhthoff's ["oot-hoff's"] phenomenon, and an electrical sensation that runs down the back when bending the neck, or Lhermitte's ["lair-meat's"] sign. The Charcot (*) triad, previously used for diagnosing this disease, is the combination of nystagmus, intention tremor, and scanning speech; current diagnosis of this disease uses the McDonald criteria, which looks for symptoms that occur in isolated attacks and lesions or plaques of the brain and spinal cord. For 10 points, name this demyelinating disease in which the insulating covers of nerve cells in the brain and spinal cord are damaged.

ANSWER: **multiple sclerosis** [accept **MS**] <Phadnis, Biology>

17. An ex-president of this country came under scrutiny after "bribery notebooks" were uncovered which detailed a kickback scheme organized by Oscar Centeno. A current leader of this country traveled to Mexico where he expressed his support for a jailed Brazilian politician by leading chants of "Free Lula." This country received the largest-ever aid package from the (*) IMF, which has required it to impose capital controls. Cristina Fernández de Kirchner will be serving as the vice president to Alberto Fernández in this country after the pair promised a return to Peronism. For 10 points, identify this South American nation where former president Mauricio Macri struggled to control inflation from its capital of Buenos Aires.

ANSWER: **Argentina** [or **Argentine** Republic or República **Argentina**] <Bunker, Other Academic>

18. A paper about children learning this language by Kees Versteegh analyzed its acquisition from the perspective of creolization. This language has undergone changes in the 20th century including the emergence of subjunctive participles using the vowel "u" and the loss of the word-final "n" which marks the accusative case. This language's speakers have developed innovative coinages using the (*) "mal-" derivational prefix, such as "malstartas", meaning "to turn off". This language separates parts of speech by different word-final vowels. This language, whose name means "one who hopes", was intended to bring about international cooperation. For 10 points, name this international auxiliary language constructed by L. L. Zamenhof which is the world's most-spoken constructed language.

ANSWER: **Esperanto** <Thompson, Linguistics>

19. The author of this poem declared "Such is Human Perversity" in response to reports of readers mispronouncing a word in it. The first version of one stanza of this poem was published in the periodical *Mischmasch*. This poem's title character, which has "eyes of flame," is described as "whiffling" toward its protagonist, who is standing in (*) "uffish thought." This poem's title character is described as having "the jaws that bite, the claws that catch." This poem describes how "One, two! One, two! And through and through" a certain weapon went "snicker-snack," that weapon in this poem is the "vorpal sword." For 10 points, Humpty Dumpty tells Alice the words to what Lewis Carroll poem in *Through the Looking Glass*?

ANSWER: "**Jabberwocky**"<Thompson, British Literature>

20. These structures were sometimes accompanied by a *mansio*, one of which, the Tre Taverne, was the site of Valerius Severus's assassination. High quality versions of these structures were topped by layers called the *sumna crustra* and the *rudens*. A system using these structures is depicted on Peutinger's Table, which belongs to a class of maps depicting them called *itinerarium*. One of these structures names the final battle in a rebellion among the (*) Icenii suppressed by Gaius Suetonius Paulinus, who defeated its leader Boudica. The Pontine Marshes frequently troubled one of these structures which was the site of a mass crucifixion of Spartacus and his followers; that structure of this kind was the Appian Way. For 10 points, name these structures, which connected cities in the Roman Empire.

ANSWER: Roman **roads** <Laurie, Other History>

21. The teal carpet design in this city's airport gained a cult following, going so far as to be used on a sneaker design by Adidas, which is based in this city. This city's Washington Park holds its Japanese Garden as well as the International Rose Test Garden. Bridges in this city include the recently-constructed Tilikum Crossing, which is restricted to use by public transit and pedestrians. This city is home to America's largest independent bookstore, (*) Powell's City of Books. This city, which was named for the largest city in Maine, is located across a river from Vancouver, Washington. The confluence of the Columbia and Willamette rivers is the site of, for 10 points, what city overlooked by Mount Hood, Oregon's largest city?

ANSWER: **Portland**, Oregon [do NOT accept or prompt on "Portland, Maine"] <Thompson, Geography>

22. This work ends with a series of rapid D quarter notes, to one F sharp, and three D notes two octaves lower, accompanied by timpani strikes. Rodgers and Hammerstein were allegedly so impressed by the choreography of this work that they invited the choreographer to work on *Oklahoma!*. A theme from this work was taken from fiddler William H. Stepp's version of "Bonaparte's Retreat" as transcribed by Ruth Crawford Seeger. A "noisily, early rag-time" piano opens this ballet's third movement (*) "Ranch House Party", which is omitted in the orchestral "Four Dance Episodes". Choreographed by Agnes de Mille, this ballet includes the Champion Roper dancing with the Cowgirl during the "Saturday Night Waltz". For 10 points, what Aaron Copland ballet includes "Buckaroo Holiday" and "Hoe-down"?

ANSWER: **Rodeo**; or, *the Courting at Burnt Ranch* [prompt on "**Hoe-down**"] <Tsai, Other Auditory>

Bonuses:

1. Answer the following about Saint Hildegard von Bingen, for 10 points each:

[10] Hildegard spent most of her life as a German abbess in an order founded by a saint of this name from Nursia. In 2012, Hildegard was declared a "Doctor of the Church" by a pope of this name, a year before that pope was succeeded by Pope Francis.
ANSWER: **Benedict** [accept **Benedictines** or Saint **Benedict** of Nursia; accept Pope **Benedict XVI**]

[10] Hildegard's *Ordo Virtutum* is an early surviving work of this type with music. Characters representing Christian virtues often appear in these works; one English example of them is *Everyman*.

ANSWER: **morality play** [prompt on **play**]

[10] A version of the *Ordo Virtutum* appears in this tome, along with many illustrations by Hildegard of her many visions. This work focuses on her concept of a divine "greening power" called *viriditas*.

ANSWER: **Scivias** <Tsai, Other Academic>

2. Name some things about Tocmetone ["toc-meh-toe-nee"], also known as Sarah Winnemucca, a Northern Paiute activist generally considered to have written the first autobiography by a Native American. For 10 points each:

[10] Tocmetone served as a translator for this general, who helped publish her account of US-run concentration camps during the Bannock War. This general accepted the defeat of a leader who surrendered saying "I will fight no more forever."

ANSWER: Oliver Otis **Howard**

[10] Tocmetone descended from the Shoshone, a tribe whose most famous member was this woman, who helped the Lewis and Clark Expedition.

ANSWER: **Sacajawea** [or **Sakakawea**]

[10] Tocmetone's autobiography was published with the help of Mary Peabody, an education reformer married to this man. This man vigorously promoted public schools, implementing the first American public education system as the first head of the Massachusetts Board of Education.

ANSWER: Horace **Mann** <Laurie, American History>

3. Answer some questions about oscillating circuits, for 10 points each.

[10] By combining a resistor, an inductor, and one of these basic components, one can construct a damped linear oscillator. These components store charge between two conductors.

ANSWER: **capacitors**

[10] A voltage-controlled oscillator can be made by combining a Schmitt trigger with a circuit that performs this task, represented by the letter "I" in a PID controller.

ANSWER: **integration** [accept word forms such as **integral**; accept proportional **integral** derivative]

[10] One of these integrated circuits can be placed in an astable ["ay"-stable] state by bridging its pins with a specific combination of resistors and capacitors, causing its output voltage to oscillate.

ANSWER: **555** timer [prompt on **timer**; accept **556** and **558** since they're multiple 555s in the same package] <Phadnis, Physics>

4. In his essay "The Work of Art in the Age of Mechanical Reproduction," Walter Benjamin ["ben-jah-MEEN"] identified this symbol with the "sight of immediate reality in the land of technology." For 10 points each:

[10] Name this artistic and literary symbol that originated in the bildungsroman *Heinrich von Ofterdingen*. It also titles a poem by Joseph von Eichendorf.

ANSWER: **blue flower** [accept **Blaue Blume**; prompt on just **flower**]

[10] In "A Report on the Latest Adventures of the Dog Berganza," E.T.A. Hoffmann referred to the blue flower as a symbol of the poetry of this author of *Heinrich von Ofterdingen*. This Romantic writer also wrote the collection *Hymns to the Night*.

ANSWER: **Novalis** [or Friedrich Leopold, Baron of **Hardenberg**]

[10] This other Romantic German author searched for the blue flower in Italy. He created a starstruck character who shoots himself with a pistol in the epistolary *Sturm und Drang* novel *The Sorrows of Young Werther* ["VURR-tuh"].

ANSWER: Johann Wolfgang von **Goethe** ["GURR-tuh"] <Bunker, European Literature>

5. This US route formerly connected Chicago with Los Angeles before it was decommissioned in 1985. For 10 points each:
[10] Name this former numbered US route. "Historic" portions of this route are still signed in many states, such as Arizona and New Mexico, where this road provided an important cultural and economic impact.

ANSWER: US Route **66**

[10] Britain's A66 road passes through the northern part of this mountainous region in Cumbria home to Ullswater, as well as "fells" including Scafell Pike, the highest point in England.

ANSWER: **Lake District**

[10] European route E66 has its eastern terminus in the city of Székesfehérvár ["SEEK-esh-feh-HEER-var"], a gateway to the tourist region surrounding Lake Balaton, in what country lying in the Pannonian Basin?

ANSWER: **Hungary** [or **Magyarország**] <Thompson, Geography>

6. The Opus 10 set of these works is dedicated entirely to Franz Liszt. For 10 points each:

[10] Give these piano studies by a Polish Romantic composer, some of which are nicknamed "Wrong Note," "Black Key," and "Revolutionary."

ANSWER: **études** by Frédéric **Chopin** [prompt on partial answers]

[10] This Polish-American composer wrote the difficult *53 Studies on Chopin's Études*, including "Badinage," which combines Chopin's "Black Key" and "Butterfly" études.

ANSWER: Leopold **Godowsky**

[10] 22 of Godowsky's studies on Chopin's études were meant to focus on this specific skill. Because of the injuries he sustained in World War I, Paul Wittgenstein commissioned composers like Erich Korngold and Maurice Ravel to write piano concertos that focused on this skill.

ANSWER: played by only the **left hand** [prompt on **one hand** or similar answers with "which hand?"] <Fu, Classical Music>

7. The sugar component of this polymer consists of alternating residues of N-acetyl-glucosamine and N-acetylmuramic acid. For 10 points each:

[10] Name this polymer that forms the cell wall in most bacteria. In Gram-positive bacteria, the layer of this polymer is substantially thicker than in Gram-negative bacteria.

ANSWER: **peptidoglycan** [or **murein**]

[10] This Gram-negative bacterium is commonly found in the lower intestine of warm-blooded organisms. Most strains of this bacteria are harmless, but some strains, such as the O157:H7 serotype, can cause food poisoning in their hosts.

ANSWER: **E. coli** [accept **Escherichia coli**]

[10] This class of antibiotics, the first of which was erythromycin, are mainly used to treat infections caused by Gram-positive bacteria and work by binding to the P site of the 50S subunit of the bacterial ribosome.

ANSWER: **macrolide** antibiotics <Phadnis, Biology>

8. One ruler of this name known as "the First Crowned" helped his brother Saint Sava establish his country's national church. For 10 points each:

[10] Give this name, which was taken by every ruler of the Nemanjić Dynasty except Vukan. Prince Lazar ruled the largest rump state that existed following the fall of an Empire whose only two rulers took this regnal name.

ANSWER: **Stefan** [accept **Stefan** Nemanjić or **Stefan** the First Crowned or **Stefan** Uroš IV Dušan or Saint **Stefan** Uros V]

[10] The Nemanjić Dynasty ruled these people who name a modern country with capital at Belgrade.

ANSWER: **Serbs** [accept **Serbia** or **Serbians**]

[10] Saint Sava's remains were later burned during a Serbian revolt crushed by Sinan Pasha, who was originally from this country. The Köprülü Dynasty was from this modern-day country, whose national heroes include a man who organized the League of Lezhë during a revolt against the Ottomans.

ANSWER: Republic of **Albania** [or Republika e **Shqipërisë**, or **Shqipëria**] <Laurie, European History>

9. In Midrash Tanhuma, Rabbi Yehudah claimed that leather used for this structure came from the skin of a large kosher animal with a hide of six colors. For 10 points each:

[10] The skins of a *tachash*, which may or may not have been a rainbow unicorn sent by God, were used to build what structure, which God described in Exodus 25:8 as "a sanctuary, so that I may dwell among [the Israelites]", and which contained a veil separating the "holy place" from the "most holy place"?

ANSWER: the **Tabernacle** [or **Mishkan**, or **Tent of Meeting**, or **Tent of the Congregation**, or **Ohel Mo'ed**]

[10] The "most holy place" contained the Ark of the Covenant, in which were kept the stone tablets bearing these decrees which Moses received from God on Mount Sinai.

ANSWER: the **Ten Commandments** [or **Decalogue**]

[10] Exodus 33 describes the Tabernacle being positioned such that the Israelites could see God's apparitions, which took the form of pillars of these two substances, one during the day and one at night. Name both.

ANSWER: **clouds** and **fire** <Thompson, Religion>

10. This story ends with the narrator saying of Vera, Mrs. Sappleton's niece, that "romance at short notice was her specialty." For 10 points each:

[10] Name this story, where Framton Nuttel flees after seeing three men return from hunting after earlier being told the story of the "great tragedy," which makes him think he's seeing ghosts.

ANSWER: "The **Open Window**"

[10] Saki, the author of "The Open Window," took his pen name from the name of a cupbearer in a poem published in this language. *The Rubaiyat of Omar Khayyam* was written in this language.

ANSWER: **Persian** [or **Farsi**]

[10] It's not Clovis, but in a story titled for him "on Christmas Presents," this recurring Saki character wonders why his friends keep getting him copies of *The Rubaiyat* as a gift.

ANSWER: **Reginald** [or "**Reginald** on Christmas Presents"] <O'Rourke, British Literature>

11. This formula can be used to argue that the value of a holomorphic function is determined by only values of the function on the boundary. For 10 points each:

[10] Identify this formula from complex analysis which relates the value of a function at a point a to 1 divided by $2\pi i$ times the integral of the function divided by the quantity z minus a . It can be extended to find the n th derivative of the function.

ANSWER: **Cauchy's integral formula** [or **Cauchy's differentiation formula**]

[10] When finding the integral using the formula, these specific points where the function is not well-behaved are of interest. These points are *not* discontinuities and can be poles or come in "removable" or "essential" types.

ANSWER: **singularity** [accept **removable** or **essential singularity**; also accept **singular point**]

[10] According to Cauchy's integral theorem, if f is analytic on a connected domain D , the contour integral over C within D is this value. This is also the derivative of any constant function.

ANSWER: **zero** <Bunker, Mathematics>

12. Answer the following about the growing field of development economics, for 10 points each:

[10] These experiments are often used in applied developmental economics papers popularized by Abhijit Banerjee and Esther Duflo. An example of one of these experiments could be giving some African children a free book, a control no book and then later comparing test scores of the two groups of children.

ANSWER: **randomized control trials** [accept **RCT**]

[10] Much of the work of UCSD development economist Karthik Muralidharan ["mur-alid-hah-ran"] has been in this country where he has looked at issues of school choice. Others have analyzed the effects of this country's 2016 banknote demonetization under the current Modi regime.

ANSWER: Republic of **India**

[10] This international organization has had a pivotal role in the postwar development of poor countries. This organization lends to low income countries, for a period at no interest, through its various Credit Facility groups.

ANSWER: **International Monetary Fund** [or **IME**; prompt on "**The Fund**"] <Bunker, Economics>

13. This artist introduced his "s" shaped "Line of Beauty" in his book *The Analysis of Beauty*. For 10 points each:

[10] Name this artist. He included that "Line of Beauty" on a palette in his self-portrait *Painter and His Pug*, which depicts him with his dog Trump.

ANSWER: William **Hogarth**

[10] A Hogarth series titled for one of these events depicts the aftermath of one of them involving the son of Earl Squanderfield. Jan van Eyck's most famous painting is believed to depict the Arnolfinis engaging in one of these events.

ANSWER: **marriage** [or **wedding**; or other equivalents like **matrimony**; or **Marriage A-la-Mode**; or *The Arnolfini **Wedding***; or *The Arnolfini **Marriage***]

[10] This Hogarth character is depicted wrapped in a sheet on the right side of an engraving. This protagonist of *A Harlot's Progress* is depicted as the mistress of a wealthy man in the second panel of that series.

ANSWER: **Moll Hackabout** [or **Mary Hackabout**; accept either underlined name; prompt on just **M.**] <Laurie, Painting>

14. This warlord committed suicide after being attacked by his general Akechi Mitsuhide in Honno-ji temple. For 10 points each:

[10] Name this Owari warlord, the first of three great unifiers of Japan during the Sengoku Jidai.

ANSWER: **Oda** Nobunaga

[10] These Buddhist monks resisted Oda's forces by allying with the Azai and Asakura. Oda Nobunaga conducted an 11 year siege against these warrior monks at Ishiyama Hongan-ji fortress.

ANSWER: **Ikko-Ikki**

[10] The Ishiyama Hongan-ji fortress was located in this city, where Toyotomi Hideyoshi constructed a castle named him in 1583. Tokugawa Ieyasu's 1614 siege of that castle led to the death of Toyotomi Hideyori and the end of the Sengoku Jidai.

ANSWER: **Osaka** <Hadley, World History>

15. French photographer Henri Huet, who was killed during this conflict, took a famous photo of a body being tossed out of a helicopter. For 10 points each:

[10] Name this conflict. A photo taken by Eddie Adams during this war depicts Nguyễn Ngọc Loan ["nwen naakp lwaan"] executing Nguyễn Văn Lém ["nwen vaan lehm"] in the streets of Saigon.

ANSWER: **Vietnam** War [or the **Second Indochina** War]

[10] This person was photographed sitting on an anti-aircraft gun and laughing while wearing a combat helmet during her controversial 1972 visit to North Vietnam. While in Vietnam, she became nicknamed "Hanoi."

ANSWER: Jane **Fonda** [prompt on "**Hanoi Jane**"]

[10] By using a photo taken by Ronald L. Haeberle, the Art Workers' Coalition created this poster to raise awareness of the My Lai massacre. This poster takes its title phrase from an exchange in a CBS interview, where soldier Paul Meadlo describes who they killed.

ANSWER: the **And babies** poster [or *Q. And babies? A. And babies.*] <Tsai, Other Visual>

16. This book describes how Descartes "closes his eyes and ears" in order to not suffer from the title condition. For 10 points each:

[10] Name this book, which linked the opening of the Hopital General with "The Great Confinement." The author described how water and its title concept are "deeply rooted in the dream of the Western man" in the first section, *Stultifera Navis*.

ANSWER: **Madness and Civilization: A History of Insanity in the Age of Reason** [or **History of Madness**; or **Folie et Dérailson: Histoire de la folie à l'âge classique**]

[10] *Madness and Civilization* was written by this French philosopher, whose other analysis of psychiatry includes *The Birth of the Clinic*. He also wrote *Discipline and Punish* and *The Order of Things*.

ANSWER: Michel **Foucault** ["foo-koh"]

[10] Foucault's approach in *The Order of Things* presented his method likened to this other field in the humanities. This field titles a Foucault work where he lays out his methodology in discussing "epistemes" and "discursive information."

ANSWER: **archaeology** [accept *The Archaeology of Knowledge*; or the **archaeological** method] <Tsai, Philosophy>

17. In one of this author's plays, a three-piece suit wearing black man is repeatedly mocked by a red-headed woman, who asks him to pretend to be "free of your own history" and mockingly asks him to "rub bellies." For 10 points each:

[10] Name this author, who wrote about Clay, who is stabbed on a subway car by Lula. This author established the Black Arts Repertory Theatre School, which attracted authors like Sonia Sanchez.

ANSWER: Amiri **Baraka** [or LeRoi **Jones**; the unnamed play is *Dutchman*]

[10] Baraka was a founding member of the Black Arts Movement. A subgroup of it, the Harlem Writers Guild, included this author of *I Know Why the Caged Bird Sings*.

ANSWER: Maya **Angelou**

[10] Rosa Guy, another BAM member, was originally born in this country. An author from this country wrote a novel about a boy born with an extra finger who marries into the Tulsi family.

ANSWER: Republic of **Trinidad and Tobago** (The unnamed parts are *A House for Mr. Biswas* by V. S. Naipaul) <Laurie, American Literature>

18. An interaction named after these bonds can be modeled using Houk and Wheeler's computational model and a namesake stacking from these bonds occurs in compounds such as the buckycatcher. For 10 points each:

[10] Name these bonds which occur between p orbitals.

ANSWER: **pi** bonds [accept **pi-pi** stacking]

[10] Pi stacking occurs in cyclic compounds which have this property. Hückel's rule can be used to determine whether a cyclic compound will have this property.

ANSWER: **aromatic** [accept word forms]

[10] Pi-pi stacking is involved in the formation of these supermolecules. These macromolecules are composed of at least two cyclic compounds that are not covalently linked with each other but do exhibit an interlocked ring effect.

ANSWER: **catenane** <Bunker, Chemistry>

19. Answer the following about poetry featured in the *Poems of Black Africa* anthology for 10 points each:

[10] This editor of the *Poems of Black Africa* anthology also published the poetry collection *A Shuttle in the Crypt*. This Nigerian author wrote about the competition over Sidi in his play *The Lion and the Jewel*.

ANSWER: Wole **Soyinka** [or Akinwande Oluwole **Soyinka**]

[10] Noemia de Sousa, a poet included in the collection, was part of an anti-colonial literary movement based in this country. This country's civil war is the setting of Mia Couto's novel *The Sleepwalking Land*.

ANSWER: **Mozambique** [or Republic of **Mozambique**; or República de **Mocambique**; The literary movement was known as "**Mocambicanidade**"]

[10] This Senegalese poet of "Midnight Elegy" was also featured in the collection. This co-founder of Negritude described a figure who is "clothed with your colour which is life" in "Black Woman."

ANSWER: Leopold **Senghor** [or Leopold Sedar **Senghor**] <Bunker, World/Other Literature>

20. An 1823 uprising in Demerara led by a man with this surname coincidentally targeted another man with this last name, John, who was the largest recipient of compensation payments after Britain's abolition of slavery. For 10 points each:

[10] Give this last name. John's son, a Prime Minister with this last name, was the longtime rival of Benjamin Disraeli.

ANSWER: **Gladstone** [accept Jack **Gladstone** or Sir John **Gladstone** or William **Gladstone**]

[10] This other former British Prime Minister's ancestors were also paid compensation. This man's investments in his father Ian's offshore fund was revealed by the Panama Papers, leading to calls for his resignation.

ANSWER: David **Cameron**

[10] Another payout recipient was Evelyn Bazalgette, whose nephew, Joseph, designed this system in response to the Great Stink of 1858.

ANSWER: **London's sewer** system [prompt on **sewer** system by asking "in what city?"] <Laurie, Other History>

21. Ruth Bader Ginsburg wrote lines satirizing the Obama birther controversy for her cameo in the 2016 Washington National Opera production of this opera, as the non-singing Duchess of Krakenthorp. For 10 points each:

[10] Name this *opéra comique* set during the Napoleonic wars. A tenor aria from this opera "Ah! mes amis," which Tonio sings about Marie, is notable for requiring the tenor to sing nine high Cs.

ANSWER: *La Fille du Régiment* [or *The Daughter of the Regiment*]

[10] *La Fille du Régiment* is by this Italian composer, who included the aria "Il dolce suono" in the "mad scene" from his *Lucia di Lammermoor*. Other operas by this composer include *Don Pasquale* and *The Elixir of Love*.

ANSWER: Gaetano **Donizetti**

[10] Donizetti was often grouped with Vincenzo Bellini and Gioachino Rossini during a 1950s "revival" of a style of opera known by this name. Characterized by dramatic melodic lines and smooth vocal *legato*, it is Italian for "beautiful singing."

ANSWER: **bel canto** <Laurie, Other Auditory>

22. This Son of Armenios of Pamphylia died in battle before being revived on his funeral pyre ten days later. For 10 points each:

[10] Name this man whose journeys through the afterlife and witnesses dead souls drinking from the River Lethe.

ANSWER: **Er**

[10] The myth of Er appears in the tenth book of this Socratic Dialogue by Plato. This dialogue contains the Allegory of the Cave and the legend of the Ring of Gyges.

ANSWER: **Republic**

[10] Because he did not drink from the Lethe, Er was able to recall seeing the Spindle of Necessity attended to by the goddess Ananke and these daughters of hers, who are described as daughters of Nyx in most other myths.

ANSWER: **Fates** [or **Moirai**] <Ranganathan, Mythology>