

# 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 1

Tossups:

1. **Potten et al developed the +4 model of cell arrangements in this organ. This organ's mucosa takes on a pale yellow shaggy appearance in Whipple's disease. Vaishnava et al. found that a specific cell type in this organ uses MyD88-dependent signalling to sense bacteria. Those cells in this organ also secrete alpha-defensins and are called Paneth cells. Antigens transported through M cells in this organ are taken up by dendritic cells which bring the antigens to this organ's (\*) Peyer's patches. An immune response in this organ is triggered when people with celiac disease eat gluten. This organ consists of the duodenum, jejunum, and ileum, and contains many microvilli to increase surface area. For 10 points, name this long organ that connects the stomach to the large intestine.**

ANSWER: **small intestine** [accept **duodenum**, **jejunum** or **ileum** before mentioned; prompt on **intestine**, **GI tract** or (lower) **gastrointestinal tract**] <Fu, Biology>

2. **During this country's civil war, the Holiday Inn was among the buildings opposing forces used to shoot at each other during the Battle of the Hotels. Refugee camps in this country were besieged by Amal militia forces during the War of the Camps. The Tigers militia, a group in this country led by Camille Chamoun, was wiped out by a Bachir Gemayel-led group. The largest post-World War II death toll for US Marines was caused by a suicide bombing at this country's (\*) Drakkar building. A defense minister became known as this country's capital's "butcher" after the Sabra and Shatila Massacres. Hassan Nasrallah is the current leader of a paramilitary group founded in this country to oppose Israeli occupation. Hezbollah is in, for 10 points, what country, the site of the 1983 Beirut Barracks bombing?**

ANSWER: **Lebanon** [or **Lebanese Republic**] <Laurie, World History>

3. **Tourist attractions in this region include the Sign Post Forest and the "World's Largest Weathervane," an entire Douglas DC-3 aircraft on a rotating pedestal. Visitors to the Sourdough Saloon can try the Sourtoe Cocktail, seasoned with a preserved amputated human toe, in one town in this region. This region's capital is home to a 58-foot-tall, three-story "log skyscraper" which was built during a housing shortage caused by an influx of workers on a World War II project to build a (\*) road to Alaska. Tourists in this territory's Kluane National Park can visit Canada's highest mountain, Mount Logan. This territory's town of Dawson City contains historic buildings built during the Klondike Gold Rush. For 10 points, name this westernmost Canadian territory, whose capital and largest city is Whitehorse.**

ANSWER: **Yukon** <Thompson, Geography>

4. **A painting by this artist titled for a religious scene has a nearly identical foreground to his other painting *Kitchen Servant* and was only discovered to depict the *Supper at Emmaus* after it was cleaned in the 1930s. Two Rubens paintings depicting Ovid's *Metamorphoses* were reproduced above a doorway in a painting by this artist. A woman in red cooks eggs in a genre scene by this artist. A painting by this artist which was slashed by (\*) suffragette Mary Richardson depicts Cupid holding a pink ribbon and a mirror for the title nude woman to look at herself in. This artist added a red cross to a depiction of himself contained inside a painting which depicts the Infanta Margarita. For 10 points, name this Spanish artist of the *Rokeby Venus* and *Las Meninas*.**

ANSWER: Diego **Velazquez** [or Diego Rodríguez de Silva y **Velazquez**] <West, Painting>

5. A character in this opera imagines a man being sent to prison because he told the judge "I'm bored with married life!" One man in this opera says "I haven't studied ornithology" when asked when the robins make their nests. A character in this opera puts on her wedding sash and a red poppy in her hair, then sits silently during the "Humming Chorus." The title character of this opera never hears (\*) Sharpless finish a letter from her husband, who was first introduced with "The Star-Spangled Banner." The title character sings to Suzuki about a romantic reunion in "Un bel di vedremo", not knowing that her husband has married Kate after returning to America. For 10 points, Lieutenant Pinkerton and Cio-Cio-san are from what Giacomo Puccini opera set in Japan?

ANSWER: Madame Butterfly [or Madama Butterfly] <Phadnis, Other Auditory>

6. This term is used to describe ordinal numbers from which you cannot subtract 1 and is therefore contrasted with successor ordinals. In topology, a point is described by this term with respect to a set S if every neighborhood of the point contains at least one other point in S. Oscillation is the difference between the superior and inferior forms of this concept, and this value is well-defined only if the oscillation is zero. A function is continuous if it (\*) equals this value for itself at every point. L'Hôpital's rule can be used to evaluate specific cases of these things known as indeterminate forms. A sequence converges if it has one of these things "at infinity." For 10 points, identify these things which describe the value of some function as it approaches some point.

ANSWER: limits [accept limit ordinals] <Thompson, Mathematics>

7. A character in this play combines his degrees into the term "Abmaphid," which he describes as a "wonder drug" and a "wasting disease of the frontal lobe." A character in this play advises seeking career advancement by sleeping with colleagues wives in a game of "musical beds." A character in this play complains of suffocating with her dress over her head waiting for "impotent lunk-heads" after her husband's colleague is unable to remain erect during what she calls a game of (\*) Hump the Hostess. While playing Bringing Up Baby, a character in this play reveals his 21 year old son is fictional. This play's main couple taunts Honey about her "hysterical pregnancy." For 10 points, George and Martha sing the title question to each other in what Edward Albee play?

ANSWER: Who's Afraid of Virginia Woolf? <Laurie, American Literature>

8. A story told by an activist who manages this place's namesake "Children's Zone" titles Davis Guggenheim's documentary *Waiting for "Superman;"* that activist is Geoffrey Canada. The Federal Contested Elections Act was passed after John MacCormack excluded a representative from this place from Congress. A member of this place's "Gang of Four," Charles Rangel, successfully primaried its once-excluded Representative Adam Clayton Powell, Jr. This place was home to the Nation of Islam's Temple Number 7, led for a while by (\*) Malcolm X. The New Negro Movement flourished in this place during a broader period which saw its Apollo Theatre rise to prominence. For 10 points, name this New York City neighborhood that experienced a namesake "Renaissance" in the 1920s.

ANSWER: Harlem [prompt on New York City or Manhattan] <Laurie, American History>

9. Upon learning of this figure's demise, one king thanked God by saying "For the sight I see to the Sovran Ruler be speedy thanks!" The first named victim of this figure was the "girded warrior," Hondscio ["hond-show"]. Hygd received the three horses and a necklace that Wealtheow ["waal-they-owe"] gave to one hero as a gift for defeating this creature. (\*) Unferth warned one hero that he would not beat this creature, due to the hero losing a contest to Breca. For twelve years, this figure terrorized Hrothgar's mead hall Heorot, and is defeated in a no-weapons combat when one of his arms is torn off. This figure's head is kept as a trophy after the defeat of his unnamed mother, a descendant of Cain. For 10 points, name this first creature killed by Beowulf.

ANSWER: Grendel <Tsai, World/Other Literature>

10. Pufendorf argued one claim in this text was "overstated" because it ignored the possibility of incompletely realized forms of social cooperation. This work argues for two endeavors: "aversions" and "appetites," which themselves are oriented towards objects of the "good." Because men should "endeavor to peace" and men should transfer their natural right to the sovereign, the author of this work argues for the existence of Laws of (\*) Nature. This work argues that when people agree to a common authority they have entered a "sovereignty by institution." The author of this book argues that humans form states in order to minimize the probability of violent death in its first section, "Of Man." For 10 points, name this 1651 work which claims that life in the state of nature is a "war of all against all", written by Thomas Hobbes.

ANSWER: Leviathan or *The Matter, Forme and Power of a Common-Wealth Ecclesiasticall and Civil* <Bunker, Philosophy>

11. Under rational expectations, an alternative asset pricing model that estimates this quantity uses corresponding elasticity and absorption approaches. A crawling peg regime allows this quantity to change slowly. Based on the large banks that trade the interbank rate, this quantity differs between the forward rate and the spot rate for certain contracts. The "impossible trinity" suggests that a country with free capital movement and an independent monetary policy cannot (\*) fix this quantity. When observing the Law of One Price this quantity will adjust until identical goods are sold for the same value everywhere. In the long run the real form of this ratio is 1:1 according to Purchasing Power Parity theory. The Big Mac index estimates the effectiveness of, for 10 points, what quantity often measured in units of foreign currency per domestic currency? ANSWER: foreign exchange rate [accept forex rate; prompt on forex or the price of currency] <Hadley, Economics>

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

12. American troops mistakenly caused offense by distributing soccer balls with one of these objects depicted on them to Afghan children. 444 of these objects are located along a namesake avenue in a park in Hermitage, Pennsylvania. The miraculous fall of one of these objects from the sky is said to have turned the tide of a battle at the location of modern-day Tallinn. One of these objects named "Red (\*) Peak" attracted public acclaim but was ultimately rejected in a 2015 referendum in New Zealand. A physically mutilated one of these objects is often used as a symbol of the 1956 Hungarian Revolution. Vexillology is the study of, for 10 points, what banners, which might represent a state or country? ANSWER: flags [accept more specific answers like national flags or flags of Saudi Arabia or flags of Denmark or flags of New Zealand or flags of Hungary] <Thompson, Other Academic>

13. One poem written in this language describes a woman about whom the speaker states "No hope of seeing [her] alive/remains for [him] now." A more famous poem written in this language by that author ends "And it is sweet to shipwreck in such a sea" after describing a "lonely hillside." That pessimistic poet who wrote in this language wrote "To His Lady" and "The (\*) Infinite." A second poet who wrote in this language advocated "Let the beautiful laurel grow so, on the green bank." That poet who wrote in this language addressed his love interest as "you who hear the sound in scattered rhymes" as part of a 366 poem collection dedicated to Laura. For 10 points, name this language of the poets Giacomo Leopardi and Petrarch. ANSWER: Italian [or italiano] <Bunker, European Literature>

14. Opponents of this ruler used a motto translated as "less [this ruler], more white bread." This leader's namesake "lost children" were part of a state-sanctioned effort to kidnap leftists' children and give them to supporters. This leader's country underwent an economic miracle under the guidance of technocratic members of Opus Dei. The production of the SEAT ["say-at"] 600 car helped spur an economic boom under this ruler. This ruler's National Movement included his country's only legal trade union, the (\*) Vertical Syndicate. Musicians of the Nova Cançó ["kan-soh"] movement fought against this ruler's suppression of the Catalan language. For 10 points, name this fascist *caudillo* who ruled for over thirty years following his victory in the Spanish Civil War. ANSWER: Francisco Franco <Stevenson, European History>

15. A 2006 paper from Ilhan Aksay's group proposed synthesizing graphene by forcing graphite to undergo this process. In some zeolites and compounds like Fe<sub>3</sub>Pt ["F-E-3-P-T"], large vibrations known as rigid unit modes can appear in the negative version of this process. Appearing in some aerospace settings, the alloy invar 36 experiences a very small amount of this process. For an (\*) isotropic material, the coefficient related to this process is three times the coefficient for the linear version of this process. That coefficient for this process can be anisotropic so it varies along crystallographic directions and is symbolized alpha. For 10 points, name this process in which a material's volume increases in response to an external heat source. ANSWER: thermal expansion [accept thermal volumetric expansion or negative thermal expansion; prompt on expansion] <Bunker, Physics>

16. This author inspired Andre Gide's conception of the *acte gratuit* in Gide's novel *Lafcadio's Adventures*; Gide was the first to publish this author's major novels in French. Mr. Vladimir tasks the protagonist of one of this author's works with creating a truly random act of violence, which winds up killing Stevie when he trips holding a bomb. This author, who created the saboteur Mr. (\*) Verloc, wrote a novel whose frame story tells of five men telling stories while aboard the *Nellie*, which sits in the Thames; that novel centers on a search for a character whose last words are "The horror! The horror!" For 10 points, name this author of *The Secret Agent*, who detailed the search for Kurtz in *Heart of Darkness*. ANSWER: Joseph Conrad [or Józef Teodor Konrad Korzeniowski] <Laurie, British Literature>

17. A park in this city contains 106 pairs of detached metal legs titled *Agora*. A fiberglass sculpture in this city is believed to represent an animal, a tree, a portal, and an architectural form, and is known by residents of this city as "Snoopy in a Blender." Twelve metal lotus petals known as *Sky Landing* were installed in this city by Yoko Ono. A sculpture in this city originally titled *The Sun, The Moon, and One Star* by Joan Miró is across the street from a sculpture generally known as this city's (\*) "Picasso." This city contains a red steel Alexander Calder sculpture titled *Flamingo*, as well as Anish Kapoor's *Cloud Gate*. For 10 points, name this city which contains that sculpture nicknamed "The Bean," as well as two bronze lions outside of its Art Institute.

ANSWER: **Chicago**, Illinois <West, Other Visual>

18. A bronze tablet found in this region records a speech by Emperor Claudius urging the admittance of people from it into the Senate; Claudius himself was born in it. Roman commander Postumus broke away and founded an Empire named for this region during the Crisis of the Third Century, though it was destroyed fourteen years later by Aurelian while led by Tetricus I. A historian born in this region recounted its Christianization in a book sometimes titled *Ten Books of Histories*. A general won a battle in this region by constructing both a circumvallation and a contravallation and fighting from in between the two. (\*) Vercingetorix's defeat is recounted in a series of commentaries on wars in this region that opens by noting its three divisions: Aquitani, Belgae, and Celtae. For 10 points, Julius Caesar fought wars in what region roughly corresponding with modern-day France.

ANSWER: **Gaul** [accept Gallic Empire; prompt on Armorica or Tours] <Laurie, Other History>

19. Before being captured by pirates and sold to King Lycurgus of Nemea, Hypsipyle ["hip-sip-ih-lee"] was chased from Lemnos for secretly refusing to perform this action. Pisidice ["pih-sih-dih-see"] and Pelopia were among a group of sisters convinced to perform this action when they witnessed a ram come to life after it was cut up and boiled. Those sisters were tricked into performing this action by (\*) Medea with the promise that they would restore Pelias's youth. It's not incest, but Creon wanted a man who had committed this act at a crossroads to be buried in his kingdom because of a prophecy that the burial would bring good fortune. For 10 points, give this action committed by Oedipus on his way to Thebes when he encountered Laius.

ANSWER: **patricide** [accept killing their father or obvious equivalents, prompt on murder or killing a male relative by asking "whom did they kill"] <Ranganathan, Mythology>

20. In this modern-day country, a man cut his throat in shock after a woman controversially took off her veil during the Conference of Badasht. A holiday originating from this country includes a custom where people bang spoons for treats on "Fireworks Wednesday." The eighteen Letters of the Living were disciples of a religious figure from this country, who wrote about "He whom God shall make manifest" in the (\*) *Bayán*. Seven ceremonial dishes called *haft-sin* are used in this country's New Year custom known as Nowruz. Despite being the birthplace of Bahá'u'lláh and the Báb, this country persecuted members of the Baha'i faith due to the state religion of Twelver Shiism. For 10 points, what Islamic Republic was home to Ayatollah Khomeini?

ANSWER: Islamic Republic of **Iran** [or Jomhuri-ye Eslami-ye **Iran**; or **Persia**] <Tsai, Religion>

21. Placing two chromophores with this property near each other leads to a large magnetic transition moment, which leads to enhancement in CD spectra. Pirkle names brush-type stationary phases with this property used in HPLC. Certain calixarenes and fullerenes possess the "inherent" form of this property. Biaryls like diphenic acid, a derivative of biphenyl with a complete set of ortho substituents, possess the (\*) axial form of this property. Pyramidal inversion allows molecules with this property to racemize. Molecules that differ in the spatial arrangements of four different groups bound to a single atom exhibit this property. For 10 points, name this property that exists when a molecule is non-superimposable on its mirror image.

ANSWER: **chirality** [accept chiral] <Phadnis, Chemistry>

22. The main theme in one chamber opera by this composer divides into equivalent tetrachords, each being a segment of the circle of fifths starting with [*read slowly*] D-A-E-B. In one piece by this composer, the line "sacrifice and prayers we offer thee, Lord" is paralleled with "half the seed of Europe." In that work, this composer used a tritone motif from C to F-sharp throughout the work as the tenor addresses another person with the words "strange friend", in a setting of (\*) "Strange Meeting" by Wilfred Owen. A work by this composer consists of variations based on a theme taken from the *Abdelazer Suite* of Henry Purcell played by different instrumental families. For 10 points, name this English composer of the *War Requiem* and *The Young Person's Guide to the Orchestra*.

ANSWER: Benjamin **Britten** [the unnamed work in the first line is *The Turn of the Screw*] <Phadnis, Classical Music>

## Bonuses:

1. These people put the finishing touches on the Yarkent Khanate, the last independent offshoot of the Chagatai Khanate, during their 1678 conquest of the Altishahr. For 10 points each:

[10] Name these people. Under Galdan, these people lost the devastating Battle of Jao Modo.

ANSWER: **Dzungar** people [or **Zunghar**]

[10] This Chinese Emperor led his forces into battle against the Dzungars at the Battle of Jao Modo. His grandson, the Qianlong Emperor, ordered the genocide of the Dzungars, while his own reign was visited by Matteo Ricci.

ANSWER: **Kangxi** Emperor [or **Xuanye**]

[10] The Dzungar invasion of the Altishahr was sanctioned by the fifth person to hold this title, the spiritual leader of Tibetan Buddhism. Tenzin Gyatso is its current holder.

ANSWER: **Dalai Lama** <Laurie, World History>

2. Answer the following about the pioneer of foundherentism ["found-here-ent-ism"], British philosopher Susan Haack. For 10 points each.

[10] Haack's foundherentism combines coherentism and foundationalism, both of which support the existence of beliefs described by this word. Along with the word "true", beliefs described by this adjective are challenged by the Gettier ["Gett-e-ay"] problems.

ANSWER: **justified** [accept word forms like "**justification**"]

[10] Haack wrote a paper on this British philosopher's "justification of deduction." This "anti-realist" author of the essay collection *Truth and Other Enigmas* tried to establish a base for meaning-theory in *The Logical Basis of Metaphysics*.

ANSWER: Michael **Dummett**

[10] Haack claims that Richard Rorty did not really belong to this philosophical school. Haack herself belongs to this philosophical tradition of C.S. Peirce ["purse"] and William James.

ANSWER: **pragmatism** [accept her play *We Pragmatists* ...: *Peirce and Rorty in Conversation*] <Bunker, Philosophy>

3. This play is considered a commentary on the Athenian sacking of Milos during the Peloponnesian War. For 10 points each:

[10] Name this play, in which Andromache is unable to bury her son after her ship leaves. It describes the fate of Hecuba, Andromache, Cassandra and Helen.

ANSWER: *The **Trojan Women***

[10] *The Trojan Women* was written by this ancient Greek playwright of *Medea* and *The Bacchae*.

ANSWER: **Euripides**

[10] As a character in this play by another author, Euripides uses various disguises to try to save his friend after he is captured at the title festival. In this play, Euripides's portrayal of women in his plays is discussed by women such as Micca in the assembly.

ANSWER: ***Thesmophoriazusae*** ["thesmo-for-ee-ah-zoo-say"] (by Aristophanes) <Ranganathan, World/Other Literature>

4. The "new" form of this genre is championed by people including Camarón de la Isla, Paco de Lucia and Tomatito, which later influenced songs like "Di mi nombre" and "Malamente" by Spanish singer Rosalía. For 10 points each:

[10] Name this musical genre of Andalusian gypsy origin. Its many styles are divided into *palos*, and often features fast guitar playing accompanied by rhythmic clapping and castanets.

ANSWER: **flamenco** [or new **flamenco**; or nuevo **flamenco**]

[10] Inspired by *guaracha*, bands like the Gipsy Kings perform a style of nuevo flamenco named for this word. This word refers to an Afro-Cuban dance genre accompanied by cajónes and claves, and names the slowest ballroom dance in international competitions.

ANSWER: **rumba** [accept **rumba** flamenco or Cuban **rumba** or **rhumba** or ballroom **rumba**]

[10] Modern flamenco music was kickstarted by Manuel de Falla's contest in this flamenco style, with the support of a young Federico García Lorca. It is considered the most serious of the *palos*, and includes the *siguiriyas* style.

ANSWER: **cante jondo** [or **deep song**] <Laurie, Other Auditory>

5. Inge Lehmann received the William Bowie Medal in 1971 after having this discovery confirmed. For 10 points each:

[10] Name this discovery, which Lehmann proposed in a paper entitled *P'* ["P prime"], in which she identified it as the explanation for the reflection of P waves. A description is acceptable.

ANSWER: the fact that the earth has a **solid inner core** [accept any answers indicating that the Earth's core has **two layers** or indicating the existence of both an **outer** and **inner** core]

[10] Lehmann suggested that the change of state in the boundary between the outer and inner cores created one of these geological entities, which can change the velocity of S and P-waves passing through them. Another of these entities discovered by Lehmann occurs under continents at a depth of about 220km.

ANSWER: **discontinuity**

[10] Lehmann's solid inner core theory helped explain the seemingly random behaviour of S and P-waves produced by these natural disasters, which are caused by tectonic plate movements.

ANSWER: **earthquakes** [or **tremors**] <Hadley, Earth Science>

6. Frantz Fanon advocated using violence to overcome this system in his book *The Wretched of the Earth*. For 10 points each:

[10] Name this system, in which powerful countries such as Germany, France or England dominated the natives and economies of countries such as India or Haiti.

ANSWER: **colonialism** [prompt on **imperialism**]

[10] This postcolonial scholar and literary theorist wrote about the Sati practice in her essay "Can the Subaltern Speak?" This scholar suggested privilege works as an insularity that cuts off access to "other" knowledge.

ANSWER: Gayatri **Spivak**

[10] Aijaz Ahmad used his book *In Theory* to criticize this postcolonial thinker, arguing that he reproduces the liberal tradition he is trying to critique. This thinker himself attacked Bernard Lewis in books such as *Covering Islam*.

ANSWER: Edward **Said** <Bunker, Other Social Science>

7. Controversy ensued in 2010 after Gambian strongman Yahya Jammeh received this honor. For 10 points each:

[10] Name this tongue-in-cheek military position granted by the governor of the US's only triply-landlocked state, who in granting it requires "all officers, seamen, tadpoles and goldfish" to obey its recipient's commands.

ANSWER: **Nebraska Admiral** [or **Admiral of the Great Navy of the State of Nebraska**, accept any answers including the words **Nebraska** and **Admiral**, prompt on partial answers]

[10] One prominent Nebraska Admiral is George Gallup, who founded a polling company that made its name after predicting that this man would defeat Alf Landon in the 1936 presidential election.

ANSWER: **Franklin Delano Roosevelt** [or **FDR**; prompt on **Roosevelt**]

[10] Another controversial admiralship was bestowed on Teodoro Obiang, the longtime dictator of this African country, whose capital of Malabo lies on the island of Bioko.

ANSWER: Republic of **Equatorial Guinea** [República de **Guinea Equatorial**; do not accept or prompt on "Guinea"] <Thompson, Other Academic>

8. The foreword and commentary of this novel were written by a man who claims to be a king nicknamed "The Beloved." For 10 points each:

[10] Name this novel that contains stories of King Charles II of Zembla, and details the assassin Gradus' accidental murder of John Shade, the author of the title poem.

ANSWER: **Pale Fire**

[10] This Russian-American author of *Pale Fire* also wrote about Humbert Humbert's disconcerting affections for the title character in *Lolita*.

ANSWER: Vladimir **Nabokov** [Vladimir Vladimirovich **Nabokov**]

[10] In a 1950s series at Harvard known as "Lectures on [this character]," Nabokov created a count of "Victories and Defeats" to refute Joseph Wood Krutch's claim in *Five Masters* that "never by any chance does [this character] win."

ANSWER: **Don Quixote** [or "Lectures on **Don Quixote**"; or Alonso **Quijano** or **Alonso Quijano**; or Alonso **Quixano**; or Don **Quijote**] <Rodriguez, European Literature>

9. Lord Salisbury requested that a *darbar* celebrating this ruler fit two criteria: be "gaudy enough to impress the orientals" and hide "the nakedness of the sword upon which we rely." For 10 points each:

[10] Name this Queen, for whom Lord Lytton organized a 68,000 person week-long feast, the most expensive in human history, to commemorate her coronation as Empress of India.

ANSWER: Queen **Victoria**

[10] William Digby estimated that 100,000 people starved in Mysore and this city, during a famine sometimes named for it, whilst Victoria feasted. The British East India Company divided India into three Presidencies named for Bengal, Bombay, and this city.

ANSWER: **Madras** [or **Chennai**]

[10] The famine helped weaken resistance to an epidemic of this disease in 1878. British officials in India popularized gin and tonics as a method of ingesting a medication used to ward off this disease.

ANSWER: **malaria** <Laurie, Other History>

10. Meaningless! Meaningless! Everything is meaningless! For 10 points each:

[10] That declaration of meaninglessness opens this Biblical book narrated by a pseudonymous king, who sought in his wisdom to discern what the duty of mankind was.

ANSWER: **Ecclesiastes** [accept, but DO NOT REVEAL, **Koheleth** or **Qohelet**]

[10] The narrator of Ecclesiastes identifies himself by this name, which gives the Hebrew title of the book. This name means "assembler" or "teacher" in Hebrew.

ANSWER: **Qohelet** [or **Koheleth**]

[10] Qohelet is commonly identified with this legendary Biblical king who is also credited with the Song of Songs, as well as a story in which he threatens to divide a baby in two to determine its true mother.

ANSWER: King **Solomon** [or **Shlomoh**] <McMaken, Religion>

11. To overcome the issues of assigning oxidation or coordination number to these compounds, the CBC method was developed. For 10 points each:

[10] Name these ions or molecules which are often attached to a metal complex in coordination bonding. The spectrochemical series allows one to determine if a species is a strong-field or weak-field example of these compounds.

ANSWER: **ligands** [accept strong or weak field **ligand**]

[10] In the nephelauxetic effect, one of these parameters decreases for a complexing ligand. In Tanabe-Sugano diagrams, these parameters are symbolized A, B and C.

ANSWER: **Racah** interelectronic repulsion parameter

[10] A class of coordination compounds with this species as a ligand include dyes like Prussian blue. Organic molecules in which this species bonded to carbon are called nitriles.

ANSWER: **cyanide** [accept **CN-**] <Bunker, Chemistry>

12. In *The Contendings of Horus and Set*, Set attempted to show his dominance over Horus by seducing and having sex with him. For 10 points each:

[10] That plan backfired when Horus tricked Set into eating lettuce covered with this substance.

ANSWER: **semen**

[10] In one myth, Isis retrieved all parts of the dismembered body of this deity to bury him except for his penis. The Oxyrhynchus ["ox-ee-rink-us"] fish is said to have eaten the penis of this brother of Set and lord of the afterlife.

ANSWER: **Osiris**

[10] In the Middle Kingdom, this Egyptian god of reproduction was closely linked with Horus, and he was fused with Amun during the New Kingdom. This god was depicted with dark skin, an erect penis, and a flail.

ANSWER: **Min** [or **Khem**] <Ranganathan, Mythology>

13. The Hin recombinase can catalyze this kind of transformation, which can be either paracentric or pericentric depending on whether they include the centromere. For 10 points each:

[10] Name this type of chromosomal rearrangement in which a segment is flipped around.

ANSWER: chromosomal **inversion**

[10] Inverted repeats flank these jumping genes, which were first discovered by Barbara McClintock in maize. The "retro" type of these elements go through an RNA element via reverse transcription.

ANSWER: **transposons** [or **transposable elements** or **TE**]

[10] The most common transposons in humans are these elements, which are homologous to the 7SL RNA in the signal recognition particle. There exist "Smith" and "Jurka" subfamilies of these elements.

ANSWER: **Alu** elements <Mukherjee, Biology>

14. In this novel, Warren Harding wins election on the campaign slogan "Let's be done with Wiggle and Wobble," encapsulating his anti-Jes Grew platform. For 10 points each:

[10] Name this Ishmael Reed novel, in which the Wallflower Order, an ally of the Knights Templar, attempts to extinguish the jazz-inspiring virus Jes Grew. Papa LaBas feuds with the Wallflower Order in it.

ANSWER: **Mumbo Jumbo**

[10] Reed took the name Jes Grew from the *Book of American Negro Poetry*, by an author with this last name. Unrelatedly, an author with this last name had his life chronicled by James Boswell.

ANSWER: **Johnson** [accept James Weldon **Johnson** or Samuel **Johnson**]

[10] In *Mumbo Jumbo*, this country is attacked by the Wallflower Order in an attempt to kill Jes Grew's "miasmatic source." Alejo Carpentier set his novel *The Kingdom of this World* in this country, which is home to the author of *Breath, Eyes, Memory*.

ANSWER: Republic of **Haiti** <Laurie, American Literature>

15. Name some things about the Codex Gigas, the world's largest extant illuminated manuscript. For 10 points each:

[10] Among the many texts included in between the Old and New Testaments are two texts by this 1st century Jewish historian: *Antiquities of the Jews* and *The Jewish War*.

ANSWER: Titus Flavius **Josephus** [or **Yosef** ben Matityahu]

[10] Another of the texts interspersed is one by Constantine the African, who wrote treatises in this general field. Among the contributors to this field's namesake "Renaissance" are Paracelsus and Ambroise Paré ["ahm-brwahz pah-ray"].

ANSWER: **medicine**

[10] The Codex Gigas was among the works stolen from Rudolf II by this country's armies in the Thirty Years' War, during which this country was led by Gustavus Adolphus.

ANSWER: **Sweden** [or **Swedish** Empire] <Laurie, European History>

16. While under the tutelage of Melanie Klein, this man was forbidden from talking to the mother of a 3-year-old due to Klein's rejection of the impact of family events on development. For 10 points each:

[10] Name this British psychologist whose series of interviews with parents in the presence of troubled children is regarded as an early paper in family therapy. He developed the experimental strange situation with Mary Ainsworth.

ANSWER: John **Bowlby**

[10] Both Bowlby and Ainsworth were psychologists who studied this phenomenon, in which the parent-child relationship affects future development. Other psychologists who worked in the theory of this phenomenon have studied "allmothers" in hunter-gatherer societies.

ANSWER: **attachment** [accept word forms like **attachment theory** or **secure attachment**]

[10] In Harry Harlow's rebuttal of behaviorism, these animals were exposed to surrogate mothers made of either metal only or a combination of metal, cloth, and foam.

ANSWER: rhesus **monkeys** [prompt on **primate**; do NOT accept or prompt on incorrect apes or primates such as "chimpanzees"] <Rodriguez, Psychology/Sociology>

17. For 10 points each, answer the following about British literature inspired by Brexit.

[10] A Scottish author with this surname wrote the "first serious post Brexit novel," *Autumn*, about the relationship between a 101-year-old retired songwriter and a young lecturer. Another author with this surname wrote the postcolonial novel *White Teeth*.

ANSWER: **Smith** [accept Ali **Smith**; or Zadie **Smith**; or Sadie **Smith**]

[10] *The Cockroach*, a recent political satire by this British author, follows a man who wakes up as Prime Minister who must get Britain to leave the EU. This author wrote about the double murder of Clive and Vernon in his novel *Amsterdam*.

ANSWER: Ian **McEwan** [or Ian Russell **McEwan**]

[10] This author, who was succeeded in May 2019 by Simon Armitage as Poet Laureate, anthropomorphized the UK in her post Brexit poem "Campaign." Three female Magi appear in her poem "Queen Herod," which she included in her collection *The World's Wife*.

ANSWER: Carol Ann **Duffy** <Bunker, British Literature>

18. James Gaines' *Evening in the Palace of Reason* advanced a theory put forth by Arnold Schoenberg that the main theme of this work was written by the composer's son in order to embarrass its composer. For 10 points each:

[10] Name this Baroque collection, which contains canons and fugues based on a "thema regium", beginning with [read slowly] "C-E flat-G-A flat-B natural". The first of this collection's ten canons includes a famous palindromic "crab canon".

ANSWER: *The **Musical Offering*** [or ***Musikalisches Opfer***; or **BWV 1079**]

[10] *The Musical Offering* originated from a theme given by Frederick the Great to this composer, who improvised a three-voice fugue. This Baroque composer also wrote *The Art of the Fugue*.

ANSWER: Johann Sebastian **Bach**

[10] In *The Musical Offering*, Bach used this older term for his six-voice fugues, partially so he could use this term to form an acrostic. This term, already old in Bach's time, refers to a late Renaissance precursor to the fugue.

ANSWER: **ricercar** <Tsai, Classical Music>



19. Answer some questions about a certain linear algebra operation in physics, for 10 points each:

[10] In general relativity, the Ricci curvature tensor is defined as a trace, or contraction, of this rank-4 tensor.

ANSWER: **Riemann** curvature tensor

[10] Integrating the trace of a velocity correlation tensor gives the correlation length, which defines the maximum length scale of this multiscale phenomenon. Its minimum length scale is named for Kolmogorov.

ANSWER: **turbulence**

[10] Von Neumann defined a quantum mechanical form of this quantity equal to the trace of the Riemann curvature tensor times its logarithm. This quantity is multiplied by temperature in the expression for Gibbs free energy.

ANSWER: **entropy** <Mitchell, Physics>

20. To explain why this candidate was refusing to participate in a televised debate, one of his campaign officials reportedly said "My instructions are that the Senator should never again be put in a situation where he has to think quickly." For 10 points each:

[10] Name this politician. The possibility that he was seeing gila monsters, rather than human beings, as a result of his Ibogaine addiction was invented by Hunter S. Thompson and erroneously taken seriously.

ANSWER: Edmund **Muskie**

[10] In the Ibogaine article, Thompson also claimed that this candidate was on a rare kind of speed known as Wallot. Muskie served as this man's Vice Presidential candidate in an unsuccessful bid for the Presidency.

ANSWER: Hubert H. **Humphrey**

[10] In this election, Humphrey and Muskie lost the Democratic nomination to George McGovern, who lost the general election to incumbent Richard Nixon.

ANSWER: Election of **1972** [prompt on "72"] <Laurie, American History>

21. Answer the following about Socorro County, New Mexico, for 10 points each:

[10] The county seat, Socorro, is home to New Mexico Tech, which operates a year-round scientific observatory on this mountain which overlooks McMurdo Station. Located near Mount Terror, it is the southernmost active volcano on Earth.

ANSWER: Mount **Erebus**

[10] Socorro County is also home to this radio observatory comprising 28 telescopes located on the Plains of San Agustín near the town of Magdalena. It has featured in several films, including *Contact* and *Terminator Salvation*.

ANSWER: Karl Jansky **Very Large Array** [or **VLA**]

[10] The county is home to part of the Bosque del Apache Wildlife Refuge, a unique forest ecosystem located along the banks of this river which also forms the border between Mexico and Texas.

ANSWER: **Rio Grande** <Thompson, Geography>

22. When his student Amelia Van Buren inquired about movement of the pelvis, this artist invited her to his studio to demonstrate for her. For 10 points each:

[10] Which artist was forced to resign from his position as a professor at an art academy, when it was revealed that he removed the loincloth from a male model in a class which featured female students?

ANSWER: Thomas **Eakins**

[10] Before resigning, Eakins was serving as a professor at this city's Academy of Art. Eakins' *The Gross Clinic* and *The Agnew Clinic* are located in this city, which also contains Benjamin West's *Penn's Treaty with the Indians*.

ANSWER: **Philadelphia**, Pennsylvania

[10] Eakins also created an eleven-painting series of the Biglin brothers performing this activity. Eakins' famous painting of Max Schmitt depicts him looking at the viewer while performing this activity.

ANSWER: **rowing** [or **sculling**; or **crew**; prompt on **boating** or **boat racing**] <West, Painting>