

# Michigan Winter Tournament

"The Holy Roman Empire of Tournaments"

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## Packet 8

Tossups:

1. **Emblematic in her study of the Nepalese sherpa, a student of this thinker likes to analyze "serious games" as part of her practice theory. This teacher of Sherry Ortner argued for adopting the "cultural dimension of religious analysis" of Parsons and Shils while analyzing religion. This thinker analyzed a pre-colonial culture governed by ritual and symbols in a book about the (\*) "theater state" Negara. This anthropologist argued that ethnography must consist of both facts and commentary and analysis of aspects of culture. In one essay, this thinker describes how the title illegal sporting event is a stand-in for the men of the village. The pioneer of thick description is, for 10 points, what anthropologist, who wrote *The Interpretation of Cultures* and the essay "Deep Play: Notes on the Balinese Cockfight?"**  
ANSWER: Clifford **Geertz** <Bunker, Anthropology>

2. **Description acceptable. Opposition to negotiations during this process led groups of right-wingers to storm a World Trade Center at Kempton Park. The Bisho Massacre occurred during this process, during which the "rolling mass action" protest strategy was developed by Joe Slovo. This process was the goal of a movement whose members include the author of *I Will Write What I Like*. After the breakdown of CODESA I and II, negotiations during this process were led on one side by (\*) Cyril Ramaphosa. Steve Biko and the Black Consciousness Movement agitated for this process. At the conclusion of this process, a national army incorporated Umkhonto we Sizwe. F.W. de Klerk's release of a longtime political prisoner from Robben Island laid the foundation for this process' completion. For 10 points, give this process, which ended white minority rule in South Africa.**  
ANSWER: **ending apartheid** [accept any answer indicating the **end** of **apartheid**; accept the **end** of **white** rule in South Africa before "white minority rule"] <Laurie, World History>

3. **The main road from this region to its country's capital passes through the mountain town of Sinaia, which was the site of a 1933 assassination at its train station as well as the royal Peleş ["peh-lesh"] Castle. Dârjiu ["dar-zhee-oo"] and Prejmer ["prayzh-mayr"] are among the cities in this region which are the sites of Saxon fortified churches. This region's Covasna and Harghita counties make up most of Székely ["SEE-kay"] Land, and its largest city is (\*) Cluj ["kloozh"]. This region's southern and eastern borders are formed by the Carpathian Mountains. This region's Bran Castle is often referred to as "Dracula's Castle" as part of a tourism marketing campaign. For 10 points, name this northwestern region of Romania known for its popular association with vampires.**  
ANSWER: **Transylvania** [or **Ardeal**, or **Erdély**] <Thompson, Geography>

4. **Zoltán Bálog argued that this entity does not exist for O-type stars because of their high UV radiation. Citing examples like Titan, some astronomers claim that the conventional view of this entity as an example of "carbon chauvinism" and advocate that it be greatly expanded. Ramirez and Kaltenegger claimed that red giant stars would not have one of these regions because intense solar winds would blow away planetary (\*) atmospheres. In the Solar System, this region is typically held to have an inner diameter of around 0.7 to 0.9 AU, and an outer diameter of between 1.2 and 2. This region of a star system is often named for Goldilocks, because it is where conditions for a certain phenomenon are "just right." For 10 points, identify this region of a star system where conditions are optimal for life to arise.**  
ANSWER: the (circumstellar) **habitable zone** [accept the **Goldilocks zone** until mentioned, prompt on descriptive answers] <Thompson, Astronomy>

5. Charles C. Mann visits a region in this country at the beginning of 1491 while being led around by two members of its Sirionó people. The Labyrinthian building of Chinkana is among the pre-Colombian sites on this country's Isla del Sol. A site known as "The Door of the Puma" is part of a complex built by a people in this country who also built the "Gate to the Sun." The Wiphala ["wee-pah-lah"] flag, a flag of a people primarily in this country, had its (\*) Qullasuyu ["koo-ya-soo-yoo"] version adopted as this country's dual flag. This country, home to a pre-Colombian site constructed by the Tiwanaku, was home to silver mining centered at Cerro Rico, which necessitated the building of a massive National Mint in this country's city of Potosí. For 10 points, name this country, which shares Lake Titicaca with Peru.

ANSWER: Plurinational State of **Bolivia** [or Estado Plurinacional de **Bolivia**] <Laurie, Other History>

6. In a story named for one of these animals, the protagonist is struck by the "ordinary" but somehow "degrading and unclean" comment that "the sturgeon was a bit too strong." All the characters of another story titled for one of these animals ignore Tatiana after a mute porter beats Kapiton for speaking to her. One of these animals befriends the mute porter Gerasim in Ivan Turgenev's story *Mumu*. In a story titled for one of these animals, Dmitri (\*) Gurov falls in love with the wife of Von Diderits, Anna Sergeyevna, while vacationing in Yalta. One of these animals named Sharik is transformed into the human Polygraph Polygraphovich in a Mikhail Bulgakov novel. For 10 points each, Bulgakov wrote about the "Heart of" one of which animals?

ANSWER: **dogs** [or *Heart of a **Dog***; or "Lady with a **Dog**;" or "Lady with the **Dog**;" or "Lady with the Lap**dog**"] <Laurie, European Literature>

7. Robert Soetens' signature piece was this composer's Violin Concerto No. 2 in G minor, written because the composer was impressed with his performance of his Sonata for Two Violins. A piece by this composer opens with the left and right hand alternating rapid-fire D notes before the right hand switches to C major triads; that is this composer's Toccata in D minor. It's not Tchaikovsky, but a ballet by this composer depicts the "Departure of the Guests" with the gavotte from his first symphony, his (\*) "Classical" Symphony. This composer used three French horns to represent a character that swallows a duck. This composer included the "Dance of the Knights" in his ballet *Romeo and Juliet*. For 10 points, name this Russian composer of the "symphonic fairy tale" *Peter and the Wolf*.

ANSWER: Sergei Sergeyevich **Prokofiev** <Hadley, Classical Music>

8. Mikhail Khovanov developed a way of assigning the cohomology of a graded vector space to one of these objects. William Thurston described the conditions under which the complement of these objects can be endowed with a hyperbolic geometry. These objects can be represented by invariant polynomials named for Alexander and Jones. Any two-dimensional diagrams representing the same one of these objects can be transformed into each other by (\*) Reidemeister moves. These objects are formally defined as embeddings of a circle in three-dimensional Euclidean space up to isotopies. Links are composed of one or more disjoint instances of these objects. The figure eight and trefoil are simple examples of, for 10 points, what mathematical objects which are trivial if they can be "untied"?

ANSWER: **knots** <Thompson, Mathematics>

9. One person claimed to have returned to the site where these objects were stored on the same date for four years before actually acquiring them. Columbia professor Charles Anthon authenticated the interpretation of these objects before recanting that approval after learning their purported origin. Testimony from groups known as the "Three Witnesses" and "Eight Witnesses" as to the actual (\*) existence of these objects is typically published alongside translations of the writing on them, which was said to be in "reformed Egyptian". These objects were given to their temporary owner by the angel Moroni. For 10 points, identify these metallic objects from which Joseph Smith claimed to have translated the Book of Mormon.

ANSWER: the **golden plates** [or the **gold plates**, or the **golden bible**; prompt on the Book of Mormon] <Thompson, Religion>

10. In 2016, this state's top public defender Michael Barrett assigned its Governor to serve as a public defender to retaliate against his repeated vetoes of increased funding. This state names a method of judge selection in which a commission submits a list to a Governor, who chooses a judge who stands for election after one year. A city in this state names an effect where increased police scrutiny leads to increased murder rates according to police chief (\*) Doyle Sam Dotson III. Multiple activists in this state were found shot inside of burning cars in alleged suicides following an event whose protests were led by activists like Darren Seals; those protests spawned the slogan "Hands Up, Don't Shoot." For 10 points, Michael Brown was shot by Police Officer Darren Wilson in what state's city of Ferguson?

ANSWER: **Missouri** <Laurie, Other Social Science>

11. *Description acceptable.* **Giacomo Balla used a trapezoidal canvas to depict the hand of a friend performing this action. A skeleton does this in a self portrait by Arnold Böcklin. A man in blue performing this action is being painted by Judith Leyster in her self portrait. A blue tiled floor and the face of a woman being instructed in performing this action are reflected in a mirror in a (\*) Vermeer painting. A large green-faced man performs this action in front of houses resembling Vitebsk in several paintings by Marc Chagall. Another artist painted an old man leaning against the wall performing this action during his Blue Period. For 10 points, what activity is depicted in Pablo Picasso's *The Old Guitarist*?**

ANSWER: playing **music** [or playing an **instrument**, or similar answers; accept specific answers like playing **violin** or playing **piano**] <Tsai, Painting>

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

12. **In a system displaying this phenomenon, the total energy scales with the hyperbolic tangent of a constant over temperature. That system exhibiting this phenomenon has negative temperature when the internal energy is positive. A weak form of this occurs when electrons can be modeled as a Fermi gas and is named for Pauli. This phenomenon is present above the Néel temperature and above the (\*) Curie temperature, and Curie's law models this phenomenon. A parameter symbolized chi is positive for materials exhibiting this phenomenon, examples of which include liquid oxygen. It is usually caused by unpaired electrons. For 10 points, identify this form of magnetism in which a material aligns with an applied magnetic field but does not remain magnetized.**

ANSWER: **paramagnetism** [accept **Pauli paramagnetism**] <Bunker, Physics>

13. **In Lalita Sahasranama from the Brahmanda Purana, Kameshwari is described as having a tilaka instead of one of these things. These things are associated with the ajna chakra, or the "seat of concealed wisdom", and can be signifiers of marital status. A hate group named for these things wrote a letter in the Jersey Journal in 1987 vowing to drive out Indians from Jersey City. In response to Selena Gomez using one of these things during a live performance of "Come and Get It" (\*), Hindu leader Rajan Zed stated that these things are "not meant to be thrown around loosely for seductive effects or as a fashion accessory." In 2015, Vice published A Cultural History of White Girls Wearing, for 10 points, what usually red colored dot worn on the center of the forehead originally by Hindu women?**

ANSWER: **bindis** <Ranganathan, Other Academic>

14. **H. P. Lovecraft contrasted the disillusioned fantasy of Edgar Allen Poe with this author's "leisurely" fantasy and gentle "imitation of the weird" in "Weird Tradition in America." This author "dropped germinous seeds into" the soul of an author in an essay praising him entitled for him "and his Mosses." At its opening, one of his novels notes how all societies invariably provide for a prison and a cemetery. (\*) Holgrave hypnotizes Phoebe in one of this author's novels while telling of a family who lives at a house built by Matthew Maule. In a novel by this author, an election day sermon atop a scaffold triggers the death of Roger Chillingworth, who spends much of the novel tormenting Arthur Dimmesdale. For 10 points, name this author of *The House of the Seven Gables* and *The Scarlet Letter*.**

ANSWER: Nathaniel **Hawthorne** <Laurie, American Literature>

15. **Referencing Tom Jones, John Randolph called this President and his Secretary of State "Blifil and Black George" and a "Puritan and the black-leg," which prompted the Secretary to duel him. In an unsuccessful election, this man was attacked by Duff Green's *United States Telegraph*; this man's supporters countered with a series of "coffin handbills" aimed at his opponent. Internal improvements and tariffs were part of the (\*) American System promoted by this man's Secretary of State. This President was accused of striking a "corrupt bargain" after appointing Henry Clay Secretary of State. For 10 points, name this President who defeated, and was later defeated by, Andrew Jackson.**

ANSWER: **John Quincy Adams** [prompt on **Adams**; do not accept or prompt on "John Adams"] <Laurie, American History>

16. **A bronze relief sculpture by this artist depicts a young sculptor working on a sphinx statue, with his hand being stopped by an angel of death; that work was created as a monument to the Milmore brothers. A badger and cluster of grapes sit on the helmet of a statue by this artist, which is atop the Capitol of Wisconsin. This artist's sculpture of Alice Cogswell at Gallaudet University gave rise to an urban legend that the hands of his most famous sculpture use (\*) sign language to spell out the initials of that sculpture's subject. The Piccirilli brothers carved out this artist's most famous work, which is located in a Henry Bacon-designed presidential memorial in Washington, D.C. For 10 points, what sculptor created the massive seated man at the Lincoln Memorial?**

ANSWER: Daniel Chester **French** <Tsai, Other Visual>

17. A rare complication of this procedure is encapsulating sclerosis. Sevelamer carbonate and EPO are commonly given to persons undergoing this procedure. Long-term use of this procedure can cause deposition of beta-2-microglobulin in the viscera. James Cimino invented a now-commonly used technique to negate the need for the Scribner shunt in this procedure. An isotonic solution of electrolytes, including magnesium, calcium, and bicarbonate, undergoes (\*) reverse osmosis in this procedure through capillary tubes made of polysulfone semi-permeable membranes. Vascular access, such as a catheter or an AV fistula, is needed for this form of renal replacement therapy. For 10 points, name this technique that filters blood outside the body for patients with chronic kidney diseases.

ANSWER: hemo**dialysis** [or peritoneal **dialysis**; or **renal replacement** therapy or **RRT** before mention; prompt on blood filtration] <Tsai, Biology>

18. One essay by this modern thinker opens with a story by Plutarch which this thinker then uses to ask three questions about human goals and measure. This thinker differed from one of their contemporaries by maintaining that the free subject immediately must consider other free subjects in the world. This thinker revisited earlier ideas about invulnerable (\*) freedom in a work that rejects Dostoevsky's dismissal of secular thought. This author criticized Engels's idea that the oppression of women emerged after the discovery of bronze. In another book by this author of *The Ethics of Ambiguity*, this thinker argues that masculine ideology exploits differences to create inequality and identifies women with "the Other." For 10 points, name this feminist existentialist author of *The Second Sex*.

ANSWER: Simone de **Beauvoir** <Bunker, Philosophy>

19. In a story by this author, which takes its title from Psalm 137, Marvin's father takes him to see the "radioactive aftermath of Armageddon" in the form of a faintly glowing Earth. This author described a man looking at the sky with a parenthetical phrase noting that "there is always a last time for everything." "If I Forget Thee, O Earth" is by this author, who also wrote a story in which two men are hired to provide a computer to a Tibetan lamasery to enumerate the names of God. David (\*) Bowman is transformed into a "Star Child" in a novel written by this author while working with Stanley Kubrick, who also directed a film based on it. For 10 points, name this author of "The Nine Billion Names of God" and *2001: A Space Odyssey*.

ANSWER: Arthur C. **Clarke** [or Sir Arthur Charles **Clarke**] <Thompson, British Literature>

20. These people are organized into clans called *teips*, whose unity was the goal of Sheikh Mansur. These people are, along with the neighboring Ingush people, known as the Vainakh. These people, whose land is sometimes known as Ichkeria, founded an Emirate under Dokka Umarov. These people established the short-lived Republic of Ichkeria under Aslan Mskhadov. Egypt controversially trained for the 2018 World Cup in a state ruled by these people, causing a rift with (\*) Mo Salah. To demand independence, a group of these people occupied a school in Beslan. These people are currently ruled by a mixed martial arts enthusiast that has ordered massive anti-gay purges. Ramzan Kadyrov rules, for 10 points, what people, who live in a Russian Republic centered at Grozny.

ANSWER: **Chechens** <Laurie, European History>

21. In the Mahabharata, Arjuna fought Indra to help the god of this substance regain health in the Khandava Forest. After Shiva granted Bhasmasura a power that employed this substance, Bhasmasura immediately tried to use the power against Shiva. Shiva judged a race between Brahma and Vishnu in a form made of this substance. In the Ramayana, Hanuman (\*) spread this substance all over Lanka using his tail. After Daksha insulted Shiva at his Yajna, Sati killed herself using this substance before being reincarnated as Parvati. After she was rescued from Lanka, Sita was forced to prove her chastity by undergoing a trial by this substance. For 10 points, Agni is the Hindu god of which substance?

ANSWER: **fire** <Ranganathan, Mythology>

22. At the end of a play by this author, a character spends his bus fare to play Sarah Vaughan's song "Little Man" on the jukebox. After forming an artistic group whose members included John Kani, this author directed *The Cure*, a version of Machiavelli's *The Mandrake*. In a play by this author, the title character becomes distraught after learning that his alcoholic father will soon be returning from the hospital. In that play by this author, the title character decides to name an unwritten essay about an event of cultural significance "A World Without (\*) Collisions." This author wrote a play where Sam and Willie practice ballroom dancing; that play ends with Hally spitting in Sam's face. For 10 points, name this South African playwright who wrote "*Master Harold*" ... and the Boys.

ANSWER: Athol **Fugard** [or Athol Harold Lannigan **Fugard**] <Bunker, World/Other Literature>

## Bonuses:

1. Portraits purportedly of this figure as a youth wearing a turban, but which are actually altered versions of a photograph of an unrelated Tunisian teenager, are popular in Iran. For 10 points each:

[10] Name this figure depicted in the Ottoman art form of *hiya*, which consisted of a written description of his appearance laid out like a portrait.

ANSWER: **Muhammad**

[10] Some scholars categorize drawing pictures of Muhammad as a type of this general act, which Surah an-Nisa identifies as the only sin which Allah will not forgive.

ANSWER: **shirk** [prompt on **idolatry** or **polytheism** by asking "can you give the less specific Arabic term?"]

[10] Contrary to Islamic scholars who believe Christians and Jews to be afforded privileged status, some believe that Christian belief in this concept constitutes *shirk*, as it elevates Jesus and the Holy Spirit to co-divinity with God.

ANSWER: the Holy **Trinity** <Thompson, Religion>

2. Though many forms exist, a common version of this musical motif begins with a [*read slowly*] "minor one, major five, minor one, major flat seven" progression. For 10 points each:

[10] Name this Renaissance-era musical theme of possible Iberian origin. One of the most well-known themes throughout Europe prior to the 19th century, this theme has been used for variations by Marin Marais, Jean-Baptiste Lully, and Antonio Salieri.

ANSWER: la **folia** [or **follies** of Spain; or **folies** d'Espagne]

[10] The *folia* theme was used in this country for "Sinclairvisan", a patriotic tune about murdered diplomat Malcolm Sinclair. It's not Italy, but an early Venetian manuscript of Spanish music that lists many *villancicos* ["viyan-sikos"] is found at the Carolina Rediviva in this country, whose other old books include the Düben collection and the *Codex Argenteus*.

ANSWER: Kingdom of **Sweden** (the manuscript is the *Cancionero de Upsala*)

[10] The final entry in this composer's Opus 1 is a trio sonata for two violins and basso continuo on the *folia* theme. Other famous violin works by this Italian Baroque composer include a set of 12 violin concertos in *The Contest Between Harmony and Invention*.

ANSWER: Antonio **Vivaldi** <Hadley, Classical Music>

3. In inorganic chemistry, this type of reaction is often known as the dissociative mechanism. For 10 points each:

[10] Name this type of substitution reaction which involves a carbocation ["carbo-cat-ion"] intermediate and has first-order dependence on the electrophile and zero-order dependence on the nucleophile.

ANSWER: **SN1** reaction

[10] SN1 reactions proceed through an intermediate with a trigonal planar geometry, which has this bond angle. This bond angle is also found in sulfur trioxide.

ANSWER: **120** degrees [or **2pi/3** radians]

[10] This statement can be used to examine the structure of the transition states of an SN1 reaction; it states that the transition state of an endothermic reaction lies closer to the product, and the transition state of an exothermic reaction lies closer to the reactants.

ANSWER: **Hammond's** postulate [accept **Hammond-Leffler** postulate] <Phadnis, Chemistry>

4. Members of the Távora family had their bones broken on the wheel, the scaffold burned, and the ground at both the execution site and their now-unoccupied homes salted after an assassination attempt on a member of this dynasty. For 10 points each:

[10] Name this dynasty. The Marquis of Pombal was employed by a claustrophobic King from this dynasty, which took power after it supplanted the unpopular Philip III.

ANSWER: House of **Braganza**

[10] Pombal's early career saw him deal with a Spanish invasion during this broader war. The 1763 Treaty of Paris ended this war's North American theatre, the French and Indian War.

ANSWER: **Seven Years' War**

[10] Pombal was later issued a literal restraining order by this Queen, the first Queen to rule Portugal outright. The future John VI ruled in her later years as her mental state deteriorated, earning her the epithet "the Mad."

ANSWER: **Maria I** [accept **Maria the Mad** or **Maria the Pious**; prompt on **Maria**] <Laurie, European History>

5. In J.M. Coetzee's ["coat-zee-uh's"] *Summertime*, John quotes the speech this word appears in, then repeats this word, before Carol gives up on getting a story about America; for this reason, Coetzee thanked the author's estate. For 10 points each:  
[10] Give this short Latin word, repeated in a compound word that follows the words "personal God" and "with white beard" in a speech from a play that also discusses the "Acacacademy of Anthropopometry."

ANSWER: **qua** [or **quaquaquaqua**; or "a personal God **quaquaquaqua** with white beard **quaquaquaqua**;" accept any number of **quas**]

[10] "Quaquaquaqua" comes from a speech made by this character, who appears in a Beckett play being led by a noose around his neck by another character. His speech, in which he repeats "quaquaquaqua," is one of the two times he speaks in the play.

ANSWER: **Lucky**

[10] Lucky gives that monologue in this Samuel Beckett play, in which Vladimir and Estragon never meet the title figure.

ANSWER: ***Waiting for Godot*** <Laurie, European Literature>

6. Participants in these rituals who had learned the greatest secrets of the cult were said to have attained *epopteia*. For 10 points each:

[10] Name these rituals that represent the abduction and return of Persephone in a cycle with three phases. Inscriptions at the site of these rituals refer to "the Goddesses" and Triptolemus, who taught the Greeks to plant and harvest crops.

ANSWER: **Eleusinian Mysteries**

[10] The Eleusinian Mysteries were initiations into the cult of this goddess, who had sex with Iasion at the wedding of Cadmus and Harmonia. This mother of Persephone mourns whenever her daughter is in the underworld, causing the seasons.

ANSWER: **Demeter**

[10] This king of Thessaly cut down a huge oak tree that was sacred to Demeter, so she punished him by asking Limos, goddess of starvation, to make him hungrier the more he ate. Eventually, he died when he ate himself.

ANSWER: **Erysichthon** [or **Aethon**] <Ranganathan, Mythology>

7. In plants and some algae, another enzyme is needed to allow the rapid formation of the critical carbamate in the active site of this enzyme. For 10 points each:

[10] Name this enzyme. This enzyme's large chain is encoded by the chloroplast DNA in plants and is the most common protein on Earth.

ANSWER: **RuBisCo** [accept **RuBPCase** or **RuBPco**]

[10] RuBisCo acts in the Calvin cycle in this general process used by plants to convert light energy into chemical energy through the synthesis of glucose from carbon dioxide and water.

ANSWER: **photosynthesis**

[10] An ion of this element is required in the active site of RuBisCo in order to drive deprotonation of a lysine residue and add an "activating" carbon dioxide molecule to that lysine residue.

ANSWER: **magnesium** [or **Mg**] <Phadnis, Biology>

8. This argument differs from one made by Frege ["fray-guh"] which focuses on the existence of objects rather than entities which belong to the class of first-order bound variables. For 10 points each:

[10] Name this doubly-eponymous argument that says we should commit to the ontological existence of mathematical entities used in scientific theories.

ANSWER: **Quine-Putnam** Indispensability Argument

[10] The Quine-Putnam Indispensability is part of this broader mathematical philosophical theory. This theory, named for an ancient Greek philosopher, suggests the existence of mathematical entities which are independent of rational thought.

ANSWER: mathematical **platonism**

[10] This mathematical platonist argued we acquire knowledge about objects through the faculty of mathematical intuition. Also central to the philosophy of mathematics are his two incompleteness theorems.

ANSWER: Kurt **Gödel** ["gur-dell"] <Bunker, Philosophy>

9. According to Livy, a leader who led a revolt in the aftermath of this woman's suicide made those around him swear never to install a Roman King while passing around the dagger she used to commit suicide. For 10 points each:

[10] Name this Roman noblewoman, whose rape at the hands of Sextus Tarquinius inspired a revolt that overthrew Tarquin the Proud.

ANSWER: **Lucretia** [or **Lucrece**]

[10] The aforementioned oath was promulgated by a man with this name. Later, a man of this name is asked "Et tu" as he kills his former ally Julius Caesar.

ANSWER: **Brutus** [accept Lucius Junius **Brutus** or Marcus Junius **Brutus**]

[10] The resulting revolt overthrew this last Queen of Rome, who trampled her father's body with a chariot. Livy used the latin word *ferox* to criticize this woman, who he saw as needlessly aggressive.

ANSWER: **Tullia** Minor <Ranganathan, Other History>

10. Exekias, whose works include a vase showing Achilles and Ajax playing a game, was exemplary of a style which originated in this city. For 10 points each:

[10] Name this city, where black-figure vase painting emerged. The Nessos painter helped develop an original Attic style of black-figure pottery that distinguished it from that of this city.

ANSWER: **Corinth**

[10] One of Exekias' most famous works is an eye-cup, a type of kylix, depicting this God sailing amidst dolphins. A depiction of this God as an infant appears in a marble statue often attributed to Praxiteles whose other figure is missing an arm.

ANSWER: **Dionysus** [or *Hermes and the Infant Dionysus*]

[10] The Attic red-figure style was aided in its development by a painter named for this city, because his "name vase" is part of a collection held in this city's Pergamon and Altes Museums. Its own architecture includes the Brandenburg gate.

ANSWER: **Berlin**, Germany <Laurie, Painting>

11. In his *Notes on the State of Virginia*, Thomas Jefferson argued that "religion produced" this woman, but it could not produce a poet. For 10 points each:

[10] Name this poet, a slave and the first African-American woman to publish a book of poetry.

ANSWER: Phillis **Wheatley**

[10] Jefferson opposed abolitionists who used Wheatley's poetry to argue for emancipation, such as this man, whose own poetry includes the epic poems *Henriad* and *Maid of Orleans*. He also wrote the protoscience fiction book *Micromégas*.

ANSWER: **Voltaire** [accept François-Marie **Arouet**]

[10] Jefferson went on to say that this man's letters are nearer to poetry, but still fall short. This man was the first black man to vote in Britain and learned to compose while being educated by the Montagu family.

ANSWER: Ignatius **Sancho** [or Charles Ignatius **Sancho**] <Laurie, World/Other Literature>

12. For 10 points, answer the following about the methods used to calculate the value of a definite integral.

[10] Many introductory calculus books introduce calculating definite integrals by approximating the area with these quadrilaterals. These shapes have an area equal to the average of the two base lengths times the height.

ANSWER: **trapezoid** [accept **trapezoid** method or rule]

[10] These approximations, some of which are named for Gauss and Hermite ["air-meet"], are weighted sums of function values that are used to estimate a definite integral. The adaptive version of these approximations use sub intervals that change over the iterations.

ANSWER: **quadratures** [accept Gaussian or Gauss-Hermite **quadrature** or adaptive **quadrature**]

[10] This rule allows one to approximate the area using parabolic arcs rather than straight lines as in the trapezoid rule.

Approximately, this rule states the integral over two points is equal to a third of the height times a sum of the function values where the middle value is weighed by the number four.

ANSWER: **Simpson's** Rule or Method [prompt on **Newton-Cotes formula**] <Bunker, Mathematics>

13. Guy Bannister repeatedly pistol whipped Jack Martin for accusing him of complicity in this event, which David Ferrie was also accused of being involved in when Martin said so at the hospital. For 10 points each:

[10] Name this event. New Orleans DA Jim Garrison's investigation into this event resulted in just the prosecution of Clay Shaw, who was found not guilty in less than an hour.

ANSWER: **assassination** of **John Fitzgerald Kennedy** [accept reasonable equivalents for **assassinated**; prompt on assassination of **Kennedy**]

[10] Garrison was featured in Oliver Stone's *JFK*, where he inexplicably plays not himself, but this man, who headed a namesake commission investigating JFK's assassination. He was the Chief Justice during *Brown v. Board of Education*.

ANSWER: Earl **Warren**

[10] Garrison became suspicious of the Warren commission's investigation after a conversation with a Senate Majority Whip from this family. That man's father, who proposed the "Share Our Wealth" plan, was killed by Carl Weiss.

ANSWER: **Long** [accept Russell **Long** or Huey **Long**] <Laurie, American History>

14. Joel Meyerowitz was one of the earliest people to adopt this art form. For 10 points each:

[10] Name this specific type of art, often seen as crass and commercialized, whose opponents included Robert Frank. Most art critics point to William Eggleston's 1976 MoMA exhibition, including *The Red Ceiling*, as a turning point for acceptance of this art form as a fine art.

ANSWER: **color photography** [prompt on **photography**]

[10] One detractor of color photography was Ansel Adams, who said that color is "too distracting." Adams is best known for *Moon and Half Dome*, shot in this California national park in the Sierra Nevadas.

ANSWER: **Yosemite** National Park

[10] Another color hater is this photographer, who declared, "Color photography is vulgar." This Great Depression era photographer captured the Burroughs family and collaborated with James Agee on *Let Us Now Praise Famous Men*.

ANSWER: Walker **Evans** <Tsai, Other Visual>

15. One class of models with this added component uses the Hodrick-Prescott filter to remove the cyclical component of time series elements described by this term. For 10 points each:

[10] Name this term that describes macroeconomic models such as Real Business Cycle models. This term is the second word in the acronym DSGE.

ANSWER: **stochastic** [prompt on synonyms like "random"; accept **dynamic stochastic general equilibrium**]

[10] DSGE models assume that the competitive equilibrium follows this economist's namesake optimality in which no one can be made better off without someone becoming worse off. This Italian economist also names an 80/20 rule.

ANSWER: **Pareto** optimality [accept Vilfredo **Pareto** or **Pareto principle**]

[10] In DSGE models and other dynamic macro models, households face an intertemporal consumption and saving decision summarized by this equation. This equation, named for a mathematician, typically results from the households' resource constraint and its preferences and is similar to its namesake's ordinary differential equation.

ANSWER: **Euler** equation <Bunker, Economics>

16. This city's nickel mines have caused so much pollution that it would be economical to mine the surface soil surrounding it for heavy metal. For 10 points each:

[10] Name this city, the northernmost in the world to have more than 100,000 inhabitants. This Russian city's nickel mines are estimated to produce more than one percent of the world's sulfur dioxide emissions.

ANSWER: **Norilsk**

[10] Nickel mining is responsible for over 90 percent of exports from New Caledonia, the fifth largest producer of nickel in the world and an overseas territory of this European country, whose flag has co-official status with the native Kanak flag in New Caledonia.

ANSWER: **France**

[10] The township of Nickel Mines in this U.S. state's Lancaster County was the site of a 2006 school shooting that gained attention for the compassionate response by the local Amish community. Many Amish people speak a Germanic language named for this state.

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

17. This poet claimed to hate all French poets save Raymond Roussel, instead preferring his own wildly inaccurate translations. For 10 points each:

[10] Name this author. He wrote "you and I / Are suddenly what the trees try / To tell us we are: / That their merely being there / Means something" in the title poem of his collection *Some Trees*. He told of Henry Darger's The Vivians in *Girls on the Run*.

ANSWER: John **Ashbery**

[10] Alleged hatred notwithstanding, Ashbery claimed "we are absolutely modern" because this French poet "commanded us to be" in the introduction to his translation of this poet's *Illuminations*. He wrote the prose poem "A Season in Hell."

ANSWER: Arthur **Rimbaud**

[10] Ashbery credited his interest in French in part to Madame D'Aulnoy stories of this type. "The Princess and the Pea" and "The Snow Queen" are stories in this genre by Hans Christian Andersen.

ANSWER: **fairy tales** <Laurie, American Literature>

18. In this work, Kullervo unknowingly seduces his long-lost sister, who upon discovering this commits suicide, prompting Kullervo to go on a murderous rampage against the Untamo tribe before stabbing himself with his sword. For 10 points each:

[10] Identify this national epic of Finland. In it, Väinämöinen, the first man, warns against child abuse after hearing Kullervo's story.

ANSWER: the **Kalevala**

[10] This character in another work, in a story similar to that of Kullervo, kills himself by falling on his blade after it is revealed that his wife Niniel is actually his sister Nienor, prompting her suicide.

ANSWER: **Túrin Turambar** [accept either name, or **Túrin**, or **Túrin**, or **Mormegil**, or **Agarwaen**, or **Neithan**]

[10] The story of Túrin and his father Húrin Thalion is part of this collection of J. R. R. Tolkien's works describing the early history of Middle-Earth and named for a set of gems crafted by the elf Fëanor.

ANSWER: *The* **Silmarillion** <Thompson, Other Academic>



19. This leader employed the possible creator of trigonometry, Nasir al-Din al-Tusi, who convinced him to build the Maragheh Observatory, which would inspire the later Ulugh Beg observatory. For 10 points each:

[10] Name this leader, whose General Kitbuqa lost to Mamluks at the Battle of Ain Jalut.

ANSWER: **Hulagu Khan** [or **Hülegü**]

[10] Hülegü founded this Mongol state based in the Middle East and Iran after his defeat of Ariq Böke. This state crumbled after the death of Abu Sa'id.

ANSWER: **Ilkhanate**

[10] Earlier, Hulagu Khan had Al-Musta'sim trampled while rolled up in a carpet after his siege of this city. Harun al-Rashid built the House of Wisdom in this capital of the Abbasids.

ANSWER: **Baghdad** <Bunker, World History>

20. This constant is squared in the denominator for the Darwin term in the Dirac expansion. For 10 points each:

[10] Identify this constant: the speed which massless particles such as photons travel at. It's about 3 times 10 to the 8 meters per second.

ANSWER: **speed of light** [accept **c**]

[10] These hypothetical particles, which many physicists do not think are physically possible, travel faster than light. These particles' namesake telephone paradox shows that they would violate conventional notions of causality.

ANSWER: **tachyon** [or **tachyonic** particle]

[10] This CERN-affiliated experiment reported the anomalous detection of faster-than-light neutrinos, though the error was eventually traced to a misconnected cable. It was intended to observe oscillations between muon and tau neutrinos.

ANSWER: **OPERA** [or **Oscillation Project with Emulsion-tRacking Apparatus**] <Bunker, Physics>

21. After an author killed one of his characters in this manner, George Lewes accused him of "giving currency to a vulgar error," to which that author responded by defending its scientific possibility. For 10 points each:

[10] Name this method of dying. Krooks dies in this manner, the method of dying for "all lord chancellors in all courts... where false pretences are made."

ANSWER: **spontaneous combustion** [accept **spontaneous** human **combustion**]

[10] Krooks dies of spontaneous combustion in this novel, which also features the short-sighted philanthropic characters Mrs. Jellyby and Mrs. Pardiggle. In this novel, Richard Carstone wastes away while pursuing the case of Esther Summerson's guardian.

ANSWER: **Bleak House**

[10] *Bleak House* is by this British author of *A Christmas Carol* and *Great Expectations*.

ANSWER: Charles **Dickens** [or Charles John Huffam **Dickens**] <Laurie, British Literature>

22. Because Columbia Records refused to allow this song's lyrics to be included, Charles Mingus was only able to record the lyrics after going to Candid Records, which begins with the line "Oh, Lord, don't let 'em shoot us!" For 10 points each:

[10] Name this jazz standard that originally appeared on *Mingus Ah Um*, which was written in response to the title Arkansas governor's attempt to prevent the integration of Little Rock High School.

ANSWER: "**Fables of Faubus**" [or "**Original Faubus Fables**"]

[10] This other civil-rights-era protest song says "Alabama's got me so upset, Tennessee's made me lose my rest, and everybody knows about [the title phrase]." Nina Simone wrote this song in an hour after learning about the murder of Medgar Evers in the title state.

ANSWER: "**Mississippi Goddam**"

[10] Nina Simone also covered this song, which satirizes lynchings and describes the title objects "hanging from the poplar trees." It was most famously covered by Billie Holiday.

ANSWER: "**Strange Fruit**" <Mitchell, Other Auditory>