

# Michigan Winter Tournament

"The Holy Roman Empire of Tournaments"

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## Packet 7

Tossups:

1. In another piece, this book's author described how its subject, as the captain of a cross-country team, encouraged his teammates to imagine themselves "running against the forces of darkness." This book's protagonist writes the words "Beautiful Blue Berries" in his journal, followed by four days represented only by slashes. The main character of this book is stymied in his attempt to leave his camp by the swelling of the Teklanika River. The main character of this book dies, likely by poisoning from potato seeds or by (\*) starvation, following 113 days in the wilderness mostly spent in Fairbanks Transit Bus No. 142. "Alexander Supertramp" ventures down the Stampede Trail in, for 10 points, what book by Jon Krakauer about the death of Chris McCandless in the Alaska bush?

ANSWER: *Into the Wild* <Thompson, American Literature>

2. If a function has a property described by this term, Harnack's inequality bounds its values at any point given its value at one specific point. Any function defined everywhere on  $\mathbb{R}^n$  ["R to the n"] described by this term is constant if it is bounded, by Liouville's theorem. Functions which are solutions to Laplace's equation, meaning the sums of their second derivatives are zero, are described by this term. The Euler-Mascheroni constant describes the difference between the natural logarithm and a (\*) series described by this term. A mean described by this term is used for averaging rates, and is equal to the reciprocal of the sum of the reciprocals of the data. For 10 points, name this term that describes a divergent series consisting of the reciprocals of the integers.

ANSWER: **harmonic** [accept any word forms of: **harmonic analysis**, **harmonic function**, **harmonic mean**, **harmonic series**, etc.] <Bunker, Mathematics>

3. This book's author differentiates between two forms of happiness, one of which requires divine assistance. The author of this work admits that while goodness can "be more or less," being cannot be more or less. Though the author of this work supported the existence of a necessary connection for causality, this book's idea of an occasionalist foundation for science is similar to Al-Ghazali's. This text refers to Averroes as "The (\*) Commentator" and its second section makes developments in just war theory. This book argues for a determinism where God is the cause of everything as parts of its cycle going from God, to creation, to man, to Christ and eventually back to God. Five arguments for the existence of God are contained in - for 10 points - what philosophical and theological magnum opus of Thomas Aquinas?

ANSWER: *Summa Theologica* [accept Aquinas' *Summa* or *Summa Theologiae*] <Bunker, Philosophy>

4. In a poem written during this monarch's reign, the speaker gets "swift orders" from his mind that he should "prepare to throw / The all-dissolving Thunderbolt from below." At the end of "The Disappointment," a poem exemplary of poetry under this monarch which dealt with premature ejaculation, Lysander experiences the "hell of impotence." A member of this monarch's court wrote "An Imperfect Enjoyment." While possibly spying on behalf of this monarch, an author described the sale of a Coramantien prince into (\*) slavery in Suriname; that author of *Oroonoko* was Aphra Behn. John Wilmot, part of this monarch's court, was a possible lover of a future lover of this monarch, the actress Nell Gwyn. Comedy of manners flourished during this king's reign, encompassing playwrights like William Congreve. For 10 points, name this king, whose ascension to the English throne began the Restoration era.

ANSWER: **Charles II** [prompt on Charles] <Laurie, British Literature>

5. Diana Vreeland recommended the designers Normal Norell and Ben Zuckerman to this woman during her transition to a more American wardrobe. Rigidity, just short of immobility, was the goal for Mr. Kenneth's design of this woman's bouffant. This woman enlisted "Sister" Dorothy Parrish to help oversee the renovations of her then-home, which she gave a televised tour of on Valentine's Day the next year. She helped popularize Halston's (\*) pillbox hats, and much of her look was designed by her "Secretary of Style," Oleg Cassini. This woman wore a pink Chanel suit and matching pillbox hat to the most famous event she attended, which took place in Dallas. For 10 points, name this woman, who became a style icon during her husband's John's Presidency.

ANSWER: Jacqueline **Kennedy Onassis** [accept either underlined name; or Jacqueline **Bouvier**; or **Jackie O**; accept "Jackie" in place of Jacqueline] <Laurie, Other Visual>

6. A book about this city notes that despite the fact it did not raise property taxes between 1948 and '58, high taxes still caused factories to move outside it; that book is titled *The Origin of the Urban Crisis*. That book by Thomas Sugrue also mentions a 1943 race riot in this city that occurred in its neighborhood of Paradise Valley. Later, part of this city's neighborhood of Poletown were seized through eminent domain by mayor Coleman Young. This city is commonly used to show the racial redlining empowered by the Home Owners Loan Corporation which segregated areas like (\*) Conant Garden. This city's mayor Jerome Cavanaugh could not quell a 1967 riot which caused governor George Romney to send in the National Guard. For 10 points, identify this Midwestern city whose suburb of Dearborn's River Rouge plant still produces Ford cars.

ANSWER: **Detroit**, Michigan <Bunker, American History>

7. An item commonly used in this technique is a glass blower with a modified simple tube that includes an abundance of downward-pointing indentations; that item is named for Vigreux. An apparatus for a type of this technique uses a motor drive to rotate the string of bulbs in order to reduce bumping; that apparatus is called a Kugelrohr. Another apparatus for this technique uses a series of glass or Teflon taps for compounds that are air-sensitive and is named after William Henry (\*) Perkin, Jr. A mixture of 68% nitric acid and 32% water cannot be separated by this technique and is known as an azeotrope. Petroleum refineries use a continuous steady state when using the fractional form of this technique. For 10 points, name this technique that separates components of a liquid mixture by using selective boiling and condensation.

ANSWER: **distillation** <Phadnis, Chemistry>

8. In one text, Rumor is personified as traveling from this city to a Gaetolian king who had given the land for this city. After Juno promises that Aeolus can marry one of her nymphs, he creates an enormous storm that ends up driving the seven remaining ships of a fleet towards this city. In a shrine to Juno outside this city, (\*) Achates and his friend see a mural depicting the events of the Trojan War. The ruler of this city was widowed in Tyre when her brother, Pygmalion, killed her husband Sychaeus. While out on a hunt, the ruler of this city and her lover have sex in a cave during a storm. This city's ruler immolates herself and calls for revenge on her former lover, Aeneas. For 10 points, name this city ruled by Dido in the Aeneid.

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

9. A ceremony preceding this activity requires two attendants called "dew sweepers" and "sword bearers" and involves one participant in it performing a ritual dance to stomp out demons. Participants in this activity traditionally throw salt to purify the space used for it before they enter. A controversy in the latter part of the 20th century concerned whether foreigners possessed the necessary "dignity and grace" for (\*) promotion to the highest rank within this sport. The two currently highest-ranked competitors in this sport were both born in Mongolia, including its most successful competitor, Hakuho. A ceremony at the Meiji Shrine is performed by *yokozuna*, the highest-ranked participants in, for 10 points, what Japanese form of wrestling?

ANSWER: **sumo** wrestling [or **ōzumo**, prompt on wrestling] <Thompson, Other Academic>

10. The Alan Copeland Singers combined this song with Mason Williams' "Classical Gas." The Stone Roses used this song for their anti-monarchy song "Elizabeth My Dear." Martin Carthy's cover of this song inspired "Girl from the North Country" by Bob Dylan. A 1966 cover of this song combined lyrics like "the child of the mountain/sleeps unaware of the clarion call" in counterpoint, part of the anti-war song (\*) "Canticle." Traditionally a duet, this song asks a series of impossible tasks, such as making a "cambric shirt" with no seams, to a "true love of mine." Named for a medieval Yorkshire trade venue, this song repeats the mysterious line, "parsley, sage, rosemary, and thyme." For 10 points, name this English ballad famously covered by Simon & Garfunkel.

ANSWER: "**Scarborough Fair**" <Tsai, Other Auditory>

11. Australian general George Vasey famously declared "Here we bloody well are and here we bloody well stay" during a 1941 battle to defend Brallos and this location. A battle fought at this location was the first major engagement of the Roman-Seleucid war and resulted in Antiochus III being forced to flee Greece. A memorial stone at this location bears an inscription encouraging the reader to (\*) "go tell the Spartans" that "we lie here, obedient to their words". Upon being told to surrender his arms at this location, one military leader issued the famous retort "Molon labe", or "come and take them." A battle at this location took place simultaneously with a naval battle at Artemisium. For 10 points, name this location where Leonidas led a defending force of three hundred Spartans against the Persians.

ANSWER: **Thermopylae** <Thompson, Other History>

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

12. Ekbohm et al. and Beatty et al. note that if this quantity is low, increased variance could be selected for; thus, the authors argue that the definition of this quantity must "protect" the PNS from turning into falsehoods. The maximum value of this quantity, minus its mean, all divided by the maximum value, is used to define the genetic load. Kimura resolved a dilemma of J.B.S. Haldane by noting that most molecular evolution has (\*) no effect on this quantity. Different mutational paths can be visualized in an adaptive landscape of this quantity introduced by Sewall Wright. This quantity is increased when, for a particular trait, the expected number of offspring increases. For 10 points, identify this quantity: the propensity of how well an organism can pass on its genes.

ANSWER: (Darwinian) **fitness** [prompt on w] <Bunker, Biology>

13. This poet wrote that he was "prescribed rest in the mountains" to help him cope with "unjust sorrows" in the prologue to a collection by him. A poem by this man mentions how a daughter is stung in the forehead by a bee and ends with the lines "from a withered branch, I choose to hang my doctoral hood." A poem by this man tells of the title plant, which is given to "the true friend, who offers his frank hand to me." This man wrote the "flowered tale" of a woman whom "they say...died of (\*) cold, I know she died of love", "the girl from Guatemala." This poet of "I Cultivate a White Rose" was killed fighting the Spanish at Dos Rios. For 10 points, name this Cuban nationalist, whose *Versos Sencillos* inspired the anthem "Guantanamera."

ANSWER: José **Martí** [or José Julian **Martí** y Perez] <Rodriguez, World/Other Literature>

14. The parents of a saint with this name, Louis and Zélie Martin, are the only married couple that are canonized by the Catholic church. A saint of this name wrote of seven "mansions" that one could ascend through prayer to be closer to God in *The Interior Castle*. A saint of this name known as "The Little Flower of Jesus" draws pilgrimage crowds to her namesake basilica in Lisieux. Along with St. John of the Cross, a saint of this name founded the Discalced (\*) Carmelites. The Missionaries of Charity were founded by a 20th century saint of this name who shared it with a saint from Ávila that wrote about her religious ecstasy. For 10 points, give this name of an Albanian "mother" of Calcutta.

ANSWER: **Teresa** [or **Therese**; accept **Thérèse** of Lisieux; or **Teresa** of Ávila; or Mother **Teresa**] <Tsai, Religion>

15. Mongol converts to Islam in a state centered in this city were known as "New Muslims" and were massacred after a failed plot against Malik Kafur worried the Khalji ruler Alauddin. Razia Sultana cross-dressed while ruling a state from this city founded by a Mamluk slave of Muhammad of Ghor. Tardi Beg Khan was defeated at this city's Tughlaqabad fort by Hemu, a result reversed a month later. A ruler who ruled from this city lost a decisive 1526 battle when the (\*) sound of cannons scared his elephants; that ruler, Ibrahim Lodi, lost the 1526 Battle of Panipat. The walled portion of this city includes the Red Fort, which became an Empire's capital following the move away from Agra. For 10 points, name this city, the longtime capital of the Mughal Empire, a "new" part of which is the capital of modern-day India.

ANSWER: **Delhi** [accept Old **Delhi**; do not accept New **Delhi**] <Laurie, World History>

16. The bremsstrahlung ["brem-STRAH-lung"] losses in this process involve emission of an X-ray of 10 to 30 kilo-electron-volts after ions are mixed with electrons. Hohlräume made from high-Z materials like gold are used to contain a substance undergoing this process. The alpha-sticking problem limits the muon-catalyzed form of this process. In order for this process to proceed, high temperatures must be sustained for a sufficient (\*) confinement time and with a certain ion density according to the Lawson criterion. The triple-alpha process and the CNO cycle are both pathways for this process, which requires tunneling through the Coulomb barrier and which is energetically unfavorable for isotopes heavier than iron-56. For 10 points, identify this process occurring in stars in which atomic nuclei are combined.

ANSWER: nuclear **fusion** [accept muon catalyzed **fusion** or cold **fusion**; prompt on "nucleosynthesis"] <Bunker, Physics>

17. **This region is home to the Qapqal ["kap-kal"] News, the only newspaper to be published in Xibe ["shee-bay"], the most-spoken Tungusic language. The first chairman of this region declared that "autonomy is not given to mountains and rivers" in a demand that its official name recognize one of its ethnic groups. Ethnic minorities in this region generally obey a (\*) time zone two hours behind that followed by the majority. Ethnic-minority neighborhoods in cities in this region like Tumxuk ["toom-shook"] and Kashgar have been bulldozed and their inhabitants sent to "re-education camps" in recent years. Ürümqi ["ue-ruem-chee"] is the capital of, for 10 points, what "Autonomous Region" of northwest China home to the Uyghurs?**  
ANSWER: **Xinjiang** [or **Sinkiang**, or the **Xinjiāng** Uyghur Autonomous Region, or XUAR; prompt on **Uyghurstan** or East Turkestan by asking "what is the official name of that region?"; anti-prompt on **Dzungaria** or the Dzungarian Basin or the Tarim Basin by asking "what political region is that a part of?"] <Thompson, Geography>

18. **A variety of Balinese gamelan is accompanied by an *angklung* made from this material, which is played by shaking. The term "sizhu" ["sih-choo"] means "silk and [this material]", which is a Classical Chinese term for music. *Honkyoku* are pieces played by the *komusō*, who wear wicker baskets over their heads as they play an instrument made from this material, named for its length. The *nohkan*, which accompanies (\*) Noh performances, is a type of *fue* ["foo-ay"] made from this material. *Siku* is an Andean instrument made from this material. The Japanese *shakuhachi* is an end-blown instrument made from this material, unlike the Chinese *dizi* and Indian *bansuri*, which are transverse. For 10 points, many cultures make flutes and panpipes out of the stalk of what segmented hollow plants?**  
ANSWER: **bamboo** [do not accept or prompt on "wood"] <Tsai, Classical Music>

19. *Description acceptable.* **The pseudonymous linguist Quan Phuc Dong ["kwan fookp zohng"] noted that this general class of words could not be modified by adverbs or take generic, rather than specific, subjects, a fact which he used to justify classifying these words as "quasi-verbs." Steven Pinker identified five purposes for these words, including to establish informality, to establish a negative opinion, to provide emphasis, and in response to an (\*) unpleasant stimulus. Some examples of these words derived from religion, like "tabarnak", are among the strongest of them in Quebecois French, where they are known as "sacres." These words can be "minced" to make them less strong, which is sometimes done by using only their first letter. For 10 points, identify these words in English often have four letters and might be replaced by words like "darn."**  
ANSWER: **profanity** [or **expletives**, or **swear** words, or **oaths**, or other equivalents; prompt on **quasi-verbs** or **verbs** before read] <Thompson, Linguistics>

20. **In a painting by this artist, an inkwell decorated with a silver dog can be seen in front of a black hat, on top of a table with a golden fasces-shaped leg. During his time in England, this man became a protégé of Benjamin West and found fame with his first full-length portrait which depicted William Grant, often called *The Skater*. A portrait by this man shows a rainbow and Doric columns behind its subject, who holds a dress (\*) sword and has his right hand extended; that 1796 portrait was legendarily saved by Dolley Madison. This man painted the first official presidential portrait and his unfinished "Athenaeum" portrait is used for the one-dollar bill. For 10 points, what artist painted the famous "Lansdowne" portrait of George Washington?**  
ANSWER: Gilbert **Stuart** [or Gilbert Charles **Stewart**] <Tsai, Painting>

21. **In an epilogue commenting on the death of the title strongman, this playwright wrote "don't rejoice too soon at your escape— / The womb he crawled from still is going strong." In a play by this author, the protagonist frames Fish for a warehouse fire while working with the Cauliflower Trust. The singer of the song "Pirate Jenny" is bribed by Polly (\*) Peachum to turn Polly's husband over in a play by this author. This playwright was the most famous user of the "estrangement effect," a central tenet of his "epic theatre." This playwright of *The Resistible Rise of Arturo Ui* worked with longtime collaborator Kurt Weill on an opera based on *The Beggar's Opera*, for which he wrote "Mack the Knife." For 10 points, name this playwright of *The Threepenny Opera*.**  
ANSWER: Bertolt **Brecht** [or Eugen Berthold Friedrich **Brecht**] <Laurie, European Literature>

22. **A John Wycliffe supporter from this city, Jerome, was legendarily misidentified as the man who tied a series of papal bulls around a prostitute's neck and burned them on a pillory. The Jesuits founded the *Clementinum* in this city at a university that was later home to the Utraquist movement. The balance of power in a university in this city was altered by the Decree of Kutna Hora, leading to an exodus of German scholars, who went on and founded the (\*) University of Leipzig. Rabbi Judah Loew legendarily created a golem to defend this city's Jews. This city, whose chief university elected Jan Hus as rector following the Western Schism, were representatives of Ferdinand II were thrown from a window. For 10 points, name this city home to Charles University, the capital of medieval Bohemia.**  
ANSWER: **Prague** <Laurie, European History>

## Bonuses:

1. Louis Vauxcelles called this artist's painting *Tea Time* "Mona Lisa with a spoon." For 10 points each:

[10] Name this French artist who was greatly admired by Niels Bohr. He used multiple fractured perspectives in his painting *The Blue Bird* and co-wrote the manifesto of an art movement with Albert Gleizes ["glez"].

ANSWER: Jean Dominique Anthony **Metzinger**

[10] Vauxcelles coined the name of this art movement pioneered by Georges Braque and Pablo Picasso.

ANSWER: **Cubism**

[10] Jean Metzinger helped to pioneer this branch of Cubism, whose other artists include Jacques Lipchitz. This branch of Cubism placed a larger emphasis on color than an earlier branch and introduced the collage.

ANSWER: **Synthetic** Cubism [or **Crystal** Cubism] <Tsai, Painting>

2. This part of the brain synthesizes and secretes certain neurohormones called releasing hormones. For 10 points each:

[10] Name this part of the brain, which controls body temperature, hunger, thirst, fatigue, and many other bodily functions. It links the nervous system to the endocrine system through its control over the pituitary gland.

ANSWER: **hypothalamus**

[10] The hypothalamus is part of this system that supports a variety of functions, such as emotion, behavior, motivation, long-term memory, and olfaction. It also contains the hippocampus and the amygdala.

ANSWER: **limbic** system

[10] This nucleus within the hypothalamus contains the magnocellular neurons that produce vasopressin.

ANSWER: **supraoptic nucleus** [or **SON**] <Phadnis, Biology>

3. This conflict is the subject of *Cato*, a play performed at Valley Forge, despite widespread theatre bans during this conflict pushed by the Continental Congress. For 10 points each:

[10] Name this conflict, the subject of the play *André*, which details Benedict Arnold's betrayal of his home country during it.

ANSWER: **American Revolution** [or The **Revolutionary War**]

[10] This Father of American Theatre wrote *André* as well as *The Father* and *The Italian Father*. He managed the first permanent theatre in New York, the John Street Theatre.

ANSWER: William **Dunlap**

[10] Mercy Otis Warren agitated for the Revolution in *The Adulateur*, which fictionalized a Governor of this state as Rapatio. A much later theatre troupe from this state helped propel the careers of Susan Glaspell and Eugene O'Neill.

ANSWER: **Massachusetts** (the troupe is The Provincetown Players) <Laurie, American Literature>

4. This country's Khalq ["khalk"] faction briefly held power following a 1978 revolution that overthrew a leader who had earlier ended its Musahiban dynasty. For 10 points each:

[10] Name this country, whose Khalq and Parcham dynasties vied for control after the Saur Revolution.

ANSWER: Democratic Republic of **Afghanistan**

[10] This country invaded Afghanistan in 1979 and replaced Hafizullah Amin with the Parcham ruler Babrak Karmal. Many *mujahideen* groups fought that invasion by this country that was ordered by its premier Leonid Brezhnev.

ANSWER: **Union of Soviet Socialist Republics** [accept **Soviet Union** or **Soviet Russia**; prompt on **Russia**]

[10] The largest Sunni *mujahideen* group was the Peshawar Seven, which was primarily composed of members of this ethnic group. Members of this ethnic group who supported Sher Ali Khan were massacred by Abdur Rahman Khan's forces during a namesake 1888-1893 series of uprisings.

ANSWER: **Hazara** <Laurie, World History>

5. Rutgers sociologist Ted Geortze argued a book showing how these objects decreased rates of crime was flawed due to a lack of controls. For 10 points each:

[10] Name these objects which John Lott argued cause less crime after "shall issue" concealed carry laws were passed.

ANSWER: **guns** [accept equivalents such as **firearms**; prompt on **weapons**]

[10] Lott's research on guns falls into the law and economics in criminology literature. This legal scholar and jurist, one of the founders of the field, argued that judges use subjective reasoning in unusual legal cases in his book *How Judges Think*.

ANSWER: Richard **Posner**

[10] In law and economics, the iron law of prohibition is sometimes cited to support this relationship between drug enforcement and drugs. Describe what the law, supposed by Richard Cowan, says happens to drugs as enforcement becomes more stringent. A description is acceptable.

ANSWER: the drugs get **more potent** [accept anything that describes the **drugs getting stronger**; do NOT accept things mentioning price] <Bunker, Other Social Science>

6. While this theoretical process was occurring, the dominant form of energy was inherent to the space itself and possessed an incredibly high energy. For 10 points each:

[10] Identify this faster than light process proposed in the 1980s by Alan Guth. Gravitational waves are hypothesized to be remnants from this process.

ANSWER: cosmic **inflation** [also accept **inflationary epoch**]

[10] The inflationary epoch lasted only about 10 to the negative 36 seconds after this event occurred in which the universe evolved from a highly dense and hot object at time  $t = 0$ .

ANSWER: **Big Bang**

[10] Very shortly after the Big Bang, it is hypothesized that all the matter in the universe existed in this extremely hot state. This state of matter has the color charge of its namesake particles screened.

ANSWER: **quark gluon plasma** [accept **QGP** or **quark gluon soup**] <Bunker, Astronomy>

7. Answer the following about bringing the dead back to life, for 10 points each.

[10] This Biblical king hired the Witch of Endor to bring back the spirit of the prophet Samuel from the dead. A day later, this man fell on his sword and died in battle, prompting a succession conflict between Ish-bosheth and David, who succeeded him.

ANSWER: **Saul**

[10] This language, although it was used continuously as a liturgical language, was not a living spoken language for almost two thousand years before it was revived by the Zionist movement of Eliezer ben-Yehuda. It is now the official language of Israel.

ANSWER: (Modern) **Hebrew** [or Ivrit]

[10] These wild goats' Pyrenean subspecies, which went extinct in 2000, was briefly brought back from extinction for seven minutes in 2003, when a live calf was born shortly before its death from a lung defect.

ANSWER: **ibex** [or **bucardo**, or **herc**, or **bouquetin**] <Thompson, Other Academic>

8. Answer the following about Sir Kenneth MacMillan, the long time principal choreographer of the Royal Ballet. For 10 points each:

[10] The Royal Ballet is based in this city. Currently directed by Kevin O'Hare, the Royal Ballet performs at the Royal Opera House in this city's Covent Garden.

ANSWER: **London**, England

[10] In 1962, MacMillan choreographed a successful version of this older ballet. The original choreography of this ballet at its 1913 Paris premiere was choreographed by Vaslav Nijinsky for the Ballets Russes.

ANSWER: *The Rite of Spring* [or *Le Sacre du printemps*]

[10] MacMillan choreographed the ballet *Concerto* to this composer's second piano concerto, which the Royal Ballet performed at the end of 2019. This composer's own ballets include *The Limpid Stream*, *The Bolt*, and *The Golden Age*.

ANSWER: Dmitri **Shostakovich** <Fu, Other Auditory>

9. This archaeologist brought culture-historical archaeology to Britain, though he later abandoned it in favor of a more Marxist-oriented approach. For 10 points each:

[10] Name this archaeologist, who coined the term Urban Revolution in *Man Makes Himself*. This formulator of the Danubian culture excavated Skara Brae.

ANSWER: Vere Gordon **Childe**

[10] Though he was Australian, Childe worked much of his life in this country, whose archaeological sites include Stonehenge.

ANSWER: **United Kingdom** [or **England**, or Great **Britain**]

[10] V. Gordon Childe brought the culture-historical approach to Britain from this country, where it was developed partially by a polymath sometimes called the "father of modern pathology." Another archaeologist from this country discovered the Mask of Agamemnon while excavating Mycenae.

ANSWER: **Germany** [accept **German** Empire; the first unnamed person is Rudolf Virchow, the second is Heinrich Schliemann] <Laurie, Other History>

10. In his 2011 book *The Number and the Siren*, Quentin Meillassoux rather tenuously estimates the outcome of this event to be either the number seven hundred or seven. For 10 points each:

[10] Give this event, which, according to a Stéphane Mallarmé poem, "will never abolish chance."

ANSWER: a **throw** of the **dice** [accept reasonable approximations like **rolling dice** or **rolling the die**]

[10] In a poem titled for this poet's tomb, Mallarmé wrote of a poet thrusting a sword at a century which has not "divined / Death's victory in his voice." This American's poems include "Annabel Lee" and "The Raven."

ANSWER: Edgar Allan **Poe**

[10] The line "you pathetic fucks!" replaces the more traditionally translated "this haggard crowd" in Bronson-Bartlett and Fernandez's translation of Mallarmé's "Funeral Toast," a poem about this man's death. This Parnassian author, the dedicatee of *Les Fleurs du Mal*, coined the phrase "Art for art's sake."

ANSWER: Théophile **Gautier** <Laurie, European Literature>

11. There are 32 counties in Ireland. Name three of them, for 10 points each:

[10] This county in the southwest of Ireland is known for its dominant Gaelic football team and its namesake "Ring", a 111-mile scenic drive surrounding its Iveragh Peninsula and passing through its town of Killarney.

ANSWER: County **Kerry** [or **Ciarraí**]

[10] This county, and the city with which it shares a name, are the subject of a naming dispute, with unionists prepending "London" to it.

ANSWER: County **Derry** [or **Londonderry**, or **Dhàoirie**]

[10] This is the most populous county in Ireland. It contains Ireland's capital, with which it shares its name.

ANSWER: County **Dublin** [or Baile **Átha Cliath**] <Thompson, Geography>

12. A leader in this country frequently utilized a doctor-patient metaphor in which he, the doctor, took care of the country, the patient. For 10 points each:

[10] Name this country. Students protested against that regime in the country during the Polytechnic Uprising.

ANSWER: **Greece**

[10] That junta, the Regime of the Colonels, ended during the Turkish invasion of this island nation, whose union with Greece is sought by advocates of *enosis*. This island is divided by Turkey and Greece.

ANSWER: **Cyprus**

[10] The Regime of the Colonels supervised the abolition of the monarchy, ending the reign of the second Greek King of this name. A rift in opinion between a King of this name and Eleftherios Venizelos on entering World War I caused the National Schism.

ANSWER: **Constantine** [accept **Constantine I** or **Constantine II**] <Ranganathan, European History>

13. This approach is championed by Alexander Wendt, who claims that "the structures of human association are determined primarily by shared ideas." For 10 points each:

[10] Identify this approach in international relations, which focuses less on the states as individual actors and says the social world is our own making. A manifesto for this idea was written by Nicholas Onuf.

ANSWER: social **constructivism**

[10] Wendt wrote an article called "[this status] is What States Make of It." In IR theory, this status is usually seen as the starting point where there is no sovereign government.

ANSWER: **anarchy**

[10] Constructivism criticizes this theory of IR, exemplified by Kenneth Waltz in his *Man, the State, and War*, which argues that states are actors which exist to increase their own power.

ANSWER: **realism** [also accept **neorealism** or **real politik**] <Bunker, Political Science>

14. Answer the following about the most important subject in the 2006 State of the Union Address: human-animal hybrids. For 10 points each:

[10] This part lion, part man avatar of Vishnu disemboweled the Asura king Hiranyakashipu at twilight on the threshold of a courtyard on his thighs with his fingernails. This avatar saved Hiranyakashipu's son Prahlada because he was a devotee of Vishnu.

ANSWER: **Narasimha**

[10] In one story, this deity's head was replaced with that of an elephant to appease his mother Parvati, who was threatening to destroy all creation.

ANSWER: **Ganesha** [or **Ganesh** or **Ganapathi** or **Vinayaka**]

[10] This younger brother of Aruna stole Amrita from Indra, but upon request from Indra, he returned the nectar. Often depicted as half-bird half-man, this mount of Vishnu freed his mother Vinata from enslavement by her sister Kadru and the Nagas.

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

15. One of this composer's later works is a Fantasia with Variations on the French folk song "Au Clair de la Lune". For 10 points each:

[10] Name this Italian composer, who was one of the earliest composers to write for piano. He is probably best known for his six sonatinas for piano.

ANSWER: Muzio **Clementi** [or Muzio Filippo Vincenzo Francesco Saverio **Clementi**]

[10] Clementi composed a set of 103 exercises in his work of this title, which Claude Debussy poked fun of in his *Children's Corner*. This is also the title of the influential treatise on counterpoint written by Johann Joseph Fux.

ANSWER: **Gradus ad Parnassum**

[10] While living in England, Clementi composed his 3rd symphony, which includes a theme based on this patriotic song. This song later became the basis for "My Country, 'Tis of Thee" in America, and is still the national anthem of the United Kingdom.

ANSWER: "**God Save the Queen**" [or "**God Save the King**"] <Phadnis, Classical Music>

16. This group was originally named the "Society of Fools" before adopting their more permanent name, after a French secret society of masked men. For 10 points each:

[10] Identify this early gay rights organization founded by Harry Hay in 1950. It won an early victory in court fighting a 1952 police entrapment case, but lost popularity following the Stonewall riots due to its non-confrontational policy.

ANSWER: **Mattachine** Society

[10] Hay, like many Mattachine members, was a member of this political party, from which he asked to be expelled to preserve its reputation. Opposition to this party was strong during the so-called "Red Scare" following World War II and led by senators such as Joseph McCarthy.

ANSWER: **Communist** Party of the United States of America [or **CPUSA**]

[10] Mattachine member Dale Olson was this actor's publicist until he died in 1985 of AIDS-related complications, making him the first major celebrity to do so. He achieved star-status with 1950s movies *Magnificent Obsession* and *All That Heaven Allows*.

ANSWER: Rock **Hudson** <Thompson, American History>

17. A toolbox for this process in MATLAB allows the use of special array types, multi core processors and GPUs to compute simulations simultaneously. For 10 points each:

[10] Name this computational process, whose speedup is given an upper bound by Amdahl's law. This process allows the user to use multiple processors to solve a problem as opposed to sequential computing.

ANSWER: **parallel** computing [accept word forms]

[10] Grid computing combines parallelism with computing which takes place in this metaphorical structure on a cluster. Apple's version of this structure allows iPhone and iOS users to backup their photos and videos.

ANSWER: **cloud** [accept **cloud** computing or **iCloud**]

[10] This programming language, which debuted in 2012, supports parallel programming with its namesake subroutines which are known as Green threading. This scientific computing language emphasizes speed, compared to Python and Matlab.

ANSWER: **Julia** <Bunker, Computer Science>

18. In ancient Vedic literature, this term implies extraordinary power and wisdom, but it is later used to connote illusions. For 10 points each:

[10] Along with Mithyatva and Nidana, this is one of three causes of failure to reach Samyaktva. While Mithyatva refers to an individual's attitude to knowledge, this term refers to a source of wrong information.

ANSWER: **Maya**

[10] Maya, as referring to deceit, is considered as one of four Kasaya or faults in the philosophy of this Indian religion, along with anger, pride, and greed. Followers of this religion celebrate the birth of the last Tirthankara on Mahavir Janma Kalyanak.

ANSWER: **Jainism**

[10] Svetambara Jains recognize this number of false beliefs under Mithyatva, while Digambara Jains recognize seven. Devout Jains take this number of main vows, which include *ahimsa* and *satya*.

ANSWER: **five** [or **5**] <Ranganathan, Religion>



19. A Nick Groom book about the cultural history of these beings argues that they resulted from folklore's interaction with Enlightenment science, which can explain the forensic language used to describe them. For 10 points each:

[10] Name these beings, which include Lord Ruthven in a James Polidori story. Lord Byron was fictionalized as Lord Ruthven, who is one of these beings, in that story written by his physician. James Polidori.

ANSWER: **vampires** [or "The **Vampyre**;" or *The **Vampire**: A New History*]

[10] Abraham Van Helsing hunts the title vampire in this Bram Stoker novel.

ANSWER: **Dracula**

[10] The lesbian vampire trope emerged with this Sheridan Le Fanu novel, in which Baron Vordenberg hunts the title vampire, who had been tormenting Laura.

ANSWER: **Carmilla** <Laurie, British Literature>

20. A treatise on this concept says an event can be described by this concept if it makes us feel insignificant or feel awe. For 10 points each:

[10] Name this concept that is the subject of that Edmund Burke essay about the "Origin of Our Ideas of *this concept* and Beautiful."

ANSWER: the **sublime**

[10] Analysis of sublime and beautiful objects or experience falls into this philosophical field that is also the subject of Kant's *Critique of Judgment*.

ANSWER: **aesthetics** [prompt on "artistic appreciation"]

[10] In his third critique, Kant divided the sublime into these two general categories. One describes the experience of seeing impossibly large objects like a skyscraper whereas the other describes the experience of seeing a powerful storm. You may name either.

ANSWER: **mathematical** OR **dynamic** <Bunker, Philosophy>

21. For 10 points each, answer the following about Yang-Mills theories.

[10] The existence of this process caused physicists to reconsider the Yang-Mills theories with massive particles. In this process, which has both spontaneous and explicit forms, a system chooses one of several equivalent ground states.

ANSWER: **symmetry breaking** [accept **spontaneous symmetry breaking**]

[10] In Yang-Mills theories, the unification of this force and electromagnetism are described by the gauge group SU(2) cross U(1). This fundamental interaction is responsible for beta decay in the nucleus.

ANSWER: **weak** interaction [or **weak** nuclear force]

[10] In Yang-Mills theories, these objects, some of which are named for Faddeev and Popov, are scalar fields with spin 0. These extraneous fields are usually introduced to ensure gauge invariance or ensure unitarity in the path integral formulation.

ANSWER: **ghost** [accept **gauge ghost** or **ghost field** or **Faddeev-Popov ghosts**] <Bunker, Physics>

22. A poet from this country who inspired the group The Last Poets included a poem that predicted that guns would replace poets in his collection *My Name is Afrika*. For 10 points each:

[10] Name this country, the home of a poet who writes under the pen name Bra Willie. A group in this country named for the 1960s included André Brink.

ANSWER: **South Africa** [Keorapetse Kgositsile wrote under the pen name Bra Willie]

[10] That poet, Keorapetse Kgositsile, has been an influence on this genre of music, whose performers include his son Earl Sweatshirt. The Last Poets have worked with performers in this genre like Common and Kanye West.

ANSWER: **rap** music [or **hip-hop** music]

[10] On their self-titled album, The Last Poets repeatedly claim that people will "party and bullshit" before one of these events. "Plug in, turn on and cop out" and "lose yourself on skag and beer" are among the things you will not be able to do, according to a Gil Scott Heron spoken-word poem about one of these general events.

ANSWER: **revolution** [accept "When the **Revolution** Comes;" or "The **Revolution** Will Not Be Televised"] <Laurie, World/Other Literature>