

Michigan Winter Tournament

"The Holy Roman Empire of Tournaments"

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Packet 14

Tossups:

1. **A.J.P. Taylor wrote that the combatants of these conflicts had "become truly independent; they were nobody's satellites." Before being quickly subsumed into another country, revolutionaries freed Himara during one of these conflicts. The final battle in one of these conflicts saw Nikola Ivanov surround another side's forces at Kresna Gorge. One of the first aerial bombings occurred during this war's Siege of (*) Adrianople, or Edirne. A country led by Tsar Ferdinand I relinquished Dobruja during one of these conflicts via the terms of the treaty of Bucharest. For 10 points, name these wars fought in a namesake Peninsula, the first of which saw a coalition battle the Ottomans.**

ANSWER: **Balkan** Wars [accept First **Balkan** War or Second **Balkan** War] <Stevenson, European History>

2. **In this novel, one character is told a prophecy that begins "the high official's fortune will decline." A translation of this book, which gives characters more Latin names like Sapientia and Adamantina, was created by David Hawkes. In two scenes from this novel, a man falls ill after a begonia tree fails to bloom and several maids are accused of infidelity after an embroidered purse is found. Though much of this novel takes place in the (*) Prospect Garden, it begins in The Void, where the goddess Nuwa rejects a piece of jade that ends up in the protagonist's mouth when he is born. For 10 points, name this Chinese novel written by Cao Xueqin that follows the life of Jia Baoyu and the Jia family.**

ANSWER: ***Dream of the Red Chamber*** [or ***Story of the Stone***; or ***Hong Lou Meng***; or ***Shitou Ji***] <Rodriguez, World/Other Literature>

3. **This man used red and black figures on a grey background in his painting *Towards the Stars* as part of his *Constellation* series. A recent MoMA exhibit on him examined Parisian influences, titled for his *Birth of the World*. A still life by this artist depicts a table topped by a rose in a wine glass. Jan Steen paintings were reinterpreted using oval shapes in his (*) *Dutch Interiors* series, stemming from his desire to "assassinate painting". This artist painted the title character in a guitar shape among a chaotic interior scene dominated by squiggly lines in another painting. A black sky and red ground and a vertical ladder on the left can be seen in his *Dog Barking at the Moon*. For 10 points, name this Catalan painter of *The Harlequin's Carnival*.**

ANSWER: Joan **Miró** i Ferrà <Tsai, Painting>

4. **In a film adapted from this play, some hospital nurses operate on a disembodied yet beating human heart hanging from an IV rack. In an interactive theatrical production based on this play, the audience must wear masks and are free to walk around the five stories of the McKittrick Hotel. Washizu is shot with a barrage of arrows from his own troops after losing a battle to soldiers dressed as (*) trees in Akira Kurosawa's adaptation of this play, *Throne of Blood*. Actors may be asked to leave the theatre, spin three times, and spit over their shoulder in order to ameliorate the bad luck that comes with saying this play's name. Roman Polanski chose to depict the murders of the Thane of Cawdor and King Duncan on-screen in his screen adaptation of, for 10 points, what "Scottish play" by Shakespeare?**

ANSWER: ***Macbeth*** <Thompson, Other Academic>

5. **Frits Staal analyzed the linguistic evolution of many of these texts by comparing them to bird songs. The opening line of one of these texts has been variously translated as "there is one God" and "this being is one", among others. One ritual involving these texts might be assisted by a necklace containing 108 beads. The monk Kukai founded the Shingon school, which is named for the Chinese word for these texts. The Upanishads are the source of the (*) "shantih" or "peace" one of these texts, as well as the "Hare Krishna" one. The Rig Veda is the source of the popular Gayatri one of these texts, which like many others, begin with the Sanskrit syllable *Om*. For 10 points, name these sacred texts in Hinduism and Buddhism that are chanted repeatedly during meditation.**

ANSWER: **mantras** [prompt on **chants**] <Tsai, Religion>

6. An s-shaped one of these objects was designed by and is named for Vernor Panton. One of these items is flanked by a photograph of one of them and a definition of one of them in a conceptual artwork by Joseph Kosuth ["koh-shoot"]. De Stijl ["dee style"] artist Gerrit Reitveld designed a *Red and Blue* one of these objects. To complement a pavilion at the 1929 International Exposition, Lily Reich and Mies van der Rohe ["mees van der roh"] designed one of these objects known as the (*) "Barcelona." One of these objects was designed in order to combat the "slum of legs" by Eero Saarinen ["ehr-oh saa-rih-nen"]. That type of this piece of furniture is known as the "Tulip" and was prominently featured on the set of *Star Trek*. For 10 points, what piece of furniture is used to sit at a dinner table?

ANSWER: **chairs** [accept any specific kind of **chair**] <West, Other Visual>

7. This author wrote a novel whose first paragraph mentions Robert Kennedy's friendship with the protagonist, who visits Deborah after he gets sick at a cocktail party. The photographer John Naar collaborated with this author to examine the history of the title art form in the book *The Faith of Graffiti*. Another nonfiction book follows this author as the protagonist where he joins his friend Mitch Goodman at the 1967 (*) March on Washington. This author created a character who poops his pants during the opening action scene and is later killed by a hand grenade. In that book, this author created Sam Croft, who crushes a baby bird and kills a prisoner-of-war. For 10 points, name this American author of *The Armies of the Night*, who expanded upon his experience fighting in the Philippines in World War II in *The Naked and the Dead*.

ANSWER: Norman **Mailer** (the lead-in is from *An American Dream*) <Bunker, American Literature>

8. A tree in this country was shown on 1 to 4 million-scale maps and was formerly the only living tree for 250 miles, before it was killed in 1973 by a drunk truck driver. The southwest corner of this country is home to part of the W National Park, named for a river bend on the border between its Dosso and Tillabéri regions. This country's Air ["ah-er"] Mountains overlook its city of Agadez, a major center for the (*) Tuareg people, of whom this country has the largest population. This country is named for the river that flows through its southwest and for which its southern neighbor is also named. Niamey is the capital of, for 10 points, what country, the northern neighbor of Nigeria?

ANSWER: **Niger** ["nee-ZHAIR"] <Thompson, Geography>

9. Cutting-plane methods can be used to solve feasibility problems on objects with this property. The Slater Constraint Qualification holds if the interior of the constraint set is non-empty and the constraint functions have this property. In sets with this property, as long as the weights add to one, any weighted average of two points in the set must also be in the set. A function has this property if and only if its (*) Hessian is positive semidefinite. A set in Euclidean space has this property if every line segment between two points lies entirely within it. Given a set, its smallest superset with this property is its namesake hull. For 10 points, identify this mathematical property which holds for a single-variable function whose second derivative is non-negative, and is the opposite of concave.

ANSWER: **convex** [accept word forms like **convex** set, **convexity**, **convex** hull, strict **convexity**, etc.; do not accept or prompt on concave] <Bunker, Mathematics>

10. Undercover police in this city beat people at a gay bar as they celebrated the New Year at the Black Cat Tavern. A gang named The Avenues killed Stephanie Kuhen in this city, inciting a police crackdown on gangs. The first-ever ARPANET message was sent to Menlo Park, New Jersey from this city. An effect in which voters misrepresent their vote in polls out of perceived public pressure is named for this city's first black mayor, (*) Tom Bradley. Dan Quayle blamed a series of riots in this city on a "Poverty of Values." The Drug Abuse Resistance Education Program was created by a police chief in this city, Daryl Gates; Gates resigned in the aftermath of an event known to Korean-Americans as 4-2-9. For 10 points, name this city, the site of the Rodney King Riots.

ANSWER: **Los Angeles** <Laurie, American History>

11. A politician is mentioned in this text who is deemed wise by many and himself, but upon meeting him, one character thinks he is not actually wise. The principal character in this text says "Wealth does not bring about excellence, but excellence makes wealth." The narrator of this work finds it more difficult to overcome wickedness than death and concludes a good man has nothing to fear in this (*) life or the next. Meletus accuses one character in this work of atheistic ideas that supposedly instead come from Anaxagoras. In this work, its narrator says the unexamined life is not worth living, and compares himself to a gadfly who stings Athens and provokes action. For 10 points, name this Platonic dialogue in which Socrates offers a defense against his charge of corrupting the youth.

ANSWER: *The Apology* of Socrates [or **apologia**] <Bunker, Philosophy>

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

12. A Precambrian fossil belonging to this phylum is *Arkaura adami*. Members of this phylum have spherule cells and vibratile cells as part of their immune system. Stereom comprise the ossicles which provide structural support to members of this phylum. Organisms in this phylum have a valve that equalizes pressure called the madreporite. A system composed of connected (*) tube feet in organisms of this phylum is used for movement and respiration, and is known as the water vascular system. In one class of organisms in this phylum, the large cardiac stomach can be everted and digest food outside of the body. For 10 points, name this phylum that exhibits radial symmetry and include animals such as starfish, sea urchins, and sea cucumbers.
ANSWER: **Echinodermata** [accept **Echinoderms**] <Phadnis, Biology>

13. After noting that he has already read the *Northern Bee*, the narrator of a story by this author then proceeds to call all French people foolish and worthy of a thrashing. That narrator of a story by this author criticizes his coworkers for not going to the theater "unless one throws free tickets at their head." The narrator of one story by this man claims to be the King of Spain before being sent to an asylum; that man is (*) Popyrishchin. In a different story by this man, the protagonist, who unironically enjoys copying documents, dies of a fever after being robbed of the title garment. At the end of a story by this author of "Diary of a Madman," a "prominent personage" has his coat stolen by the ghost of Akaky Akakievich. For 10 points, name this Russian author of "The Overcoat" and "The Nose."
ANSWER: Nikolai **Gogol** [or Nikolai Vasilyevich **Gogol**] <O'Rourke, European Literature>

14. An attempt to impose a religious analogue to this goal triggered a war begun by Jenny Geddes' throwing of a book at a minister's head. The Kirk Party, which was opposed to that religious analogue of this goal, backed another country's monarch in the 1650 Treaty of Breda. The Equivalent is the name given to the payment given to one participant in this process, which was given partially to offset the failure of the (*) Darien Scheme. After becoming a spy, Daniel Defoe began agitating for this goal with his newspaper *The Review*. Pressure to sign onto the Act of Settlement preceded the formalization of this goal, by which one country ensured a Protestant Hanoverian monarch would succeed Queen Anne. For 10 points, name this goal, which united the two largest countries in Britain.
ANSWER: **union** between **Scotland** and **England** [accept any answer indicating **Scotland joining England** or Great Britain; accept any answer indicating a religious **union** of **Scotland** and **England**; prompt on partial answers] <Laurie, Other History>

15. Kenneth Judd considered a hybrid of two models that describe this situation, and found that one model is preferred if the short run marginal costs are invariant to the rates of output and investment. In one model of this situation mathematically explained by Edgeworth, one player can use limit pricing to take the market if they face a lower average cost. In another model of this situation, the best response for the second player results in lower output so the (*) first player benefits. In another representation of this situation, the Nash equilibrium is when "q1 star" equals "q2 star" equals "a minus b" over 3 c where both demand and cost are linear in quantity. This situation is modeled in games named after Stackleberg and Cournot ["cur-no"]. For 10 points, identify this economic situation in which two firms compete over price and quantity.
ANSWER: **duopoly** [accept **oligopoly** until "second player" is read: prompt thereafter] (the lead-in compares Bertrand and Cournot games) <Bunker, Economics>

16. In these substances, an order parameter is given by averaging the second Legendre ["le-zhaun-druh"] polynomial of cosine theta, where theta is the angle relative to the local director. Onsager proposed a namesake hard-rod model of these things. The presence of an electric field can change the distortion free energy density and induce a Fréedericksz ["free-der-icks"] transition in these materials, which can take on (*) lyotropic, discotic, nematic, and twisted nematic phases. In-plane switching in devices which use these things can be used to reduce angular dependence. In those devices, a panel of them is sandwiched between polarizers. For 10 points, identify this phase of soft matter used to make computer displays.
ANSWER: **liquid crystals** [or **LCs**; prompt on "crystals"] <Mitchell, Physics>

17. Agenor's maternal grandparents were Epaphus and the daughter of the deity of this entity. A blue-skinned god associated with this entity is usually depicted with breasts and accompanied by frogs. According to the Famine Stela, a monarch requested help from a god residing at Elephantine (*) to control this entity. Materials left behind by this entity were used to create humans on a potter's wheel by a ram-headed god. The arrival of Hapi was said to cause an annual event involving this entity. Sobek was often appeased by those who wished to safely travel along this entity. For 10 points, the Egyptian god Khnum was identified with the source of what entity that flooded annually.
ANSWER: **Nile** River <Ranganathan, Mythology>

18. This piece concludes with a fugue whose subject is based on a phrase from Philipp Nicolai's chorale *Wachet auf*, and consists of the quarter notes [read slowly] A up to D followed by F-sharp, B, D, G, then descending steps back to D. The composer of this piece conducted annual performances of it to raise money for the Foundling Hospital. This piece is one of the few in the larger work in which it appears in to include trumpets. Near the beginning of this piece, which takes its text from (*) Revelation, the title of this piece is sung to the notes D, A, B, A. In this piece, all voices in unison sing "for the Lord God omnipotent reigneth" and repeats the line "and He shall reign forever and ever." For 10 points, name this joyful chorus which ends Part II of Handel's *Messiah*.

ANSWER: **Hallelujah** chorus [prompt on *Messiah* with "What part of the *Messiah*?"] <McMaken, Classical Music>

19. A supporter of this movement uses the examples of Anna Pavlova and Florence Nightingale to argue that women don't need "team spirit." A supporter of this movement repeatedly uses the phrase "crème de la crème" and visits a nun who is nicknamed the "Sister of the Transfiguration." Two schoolgirls write the story "The Mountain Eyrie" about Hugh, the former lover of a supporter of this movement. An employer is accused of supporting this ideology after hosting a (*) meeting between the prime minister and von Ribbentrop. Sandy tells Miss Mackay that the title teacher supports this ideology in Muriel Spark's *The Prime of Miss Jean Brodie*. For 10 points, name this ideology supported by Lord Darlington in *The Remains of the Day*.

ANSWER: **fascism** [or **Nazism**] <O'Rourke, British Literature>

20. Carl Antwandter created this country's first brewery during a period of state-sanctioned German immigration to it. A discovery by prospector Juan Godoy triggered a silver boom in this country that helped spur the conquest of indigenous land occupied by people whose earlier uprising triggered the Destruction of the Seven Cities. After its neighbor imposed a ten cent tax on this country's saltpeter production, this country seized the city of (*) Antofagasta and triggered a war which landlocked that neighbor. Primarily, the Mapuche people live in this country, which was largely freed from Spanish rule after the Battle of Maipu, which was partially won by a part-Irish general from it that helped win the later Battle of Chacabuco in it. For 10 points, Bernardo O'Higgins was the first Supreme Dictator of what South American country?

ANSWER: Republic of **Chile** <Laurie, World History>

21. This element is used in a compound central to a cycloaddition reaction in which a trimerization of acetylene to benzene occurs named for Reppe. Carbene complexes made of this element can react with hydrogen gas or carbon monoxide to yield methane or ketene respectively. This element can be purified in a process in which syngas is added to this metal's oxide and a solid cation of this metal plus carbon dioxide forms a carbonyl gas of this metal. Used in the Mozingo Reduction, a catalyst containing (*) aluminum and this element is used to reduce carbon-sulfur bonds. This metal is the end product of the Mond process and that aforementioned catalyst is named for Raney. For 10 points, name this often-ferromagnetic metal that was paired with cadmium in early batteries.

ANSWER: **nickel** [accept **Ni**] <Bunker, Chemistry>

22. Other thinkers noticed a lack of the "question of art" in this thinker's work which later inspired Bataille ["BAHT-yay"] and Derrida to note the "problem of the excess." This thinker argued that language must conform to the two criteria of truth of impersonality and stability. In this thinker's first major work, he noted how urbanization weakened the power of guilds and increased the geographic span of political and economic institutions. Later in that book, this thinker argued how social (*) order was maintained through mechanical and organic solidarity. This thinker noted now the title phenomenon occurred more often for Protestants than Catholics in a book which helped standardize the sociological method. For 10 points, name this French sociologist who wrote *The Division of Labour in Society and Suicide*.

ANSWER: Emile **Durkheim** <Bunker, Psychology/Sociology>

Bonuses:

1. This object was stolen by Loki while he took the form of a fly. For 10 points each:

[10] Identify this object owned by a Norse goddess that was returned to its owner by Heimdallr after he and Loki turn into seals and fight.

ANSWER: **Brisingamen** [accept descriptions like **Freya's necklace**; prompt on just **necklace** or **torc**]

[10] Freya obtained her necklace after she visited the home of four of these figures, who were often smiths or craftsmen. These diminutive figures asked Freya to spend one night with each of them in exchange for the necklace.

ANSWER: **dwarves**

[10] In the 14th century, the myth of Freya's necklace was remixed in the *Sörla þáttur* ["soer-lah thah-tur"], in which she enchants two kings named Högn ["hoe-gun"] and Heðinn ["heth-in"] to battle for 143 years until a man who has undergone this process kills them. In the Kalevala, the son of Marjatta ["mar-yah-tah"] undergoes this process after chastising Väinämöinen ["vei-neh-mei-nen"] to become the rightful ruler.

ANSWER: **baptism** <Bunker, Mythology>

2. In 1866, France occupied this island for six weeks following the execution of seven Catholic missionaries during a crackdown on Christians initiated by Heungseon Daewongun. For 10 points each:

[10] Name this island, where the Japanese ship Un'yo provoked a battle that led to an 1876 unequal treaty named for it. That treaty named for this island ended the Joseon Kingdom's status as a tributary of the Qing Dynasty.

ANSWER: **Ganghwa** [or Treaty of **Ganghwa** or **Ganghwa** Incident]

[10] The Ganghwa Treaty was signed during the reign of King Gojong, who ruled the country after the fall of the Joseon Kingdom.

ANSWER: Empire of **Korea**

[10] Ganghwa Island was also the site of 1871 battle between Joseon and this country. A diplomat from this country had secret talks with Japanese Prime Minister Katsuro Taro regarding Japanese influence on Korea.

ANSWER: **United States of America** <Laurie, World History>

3. Twelve gunmen fired on the bus of the Sri Lankan cricket team near Gaddafi Stadium in this city. For 10 points each:

[10] Name this city that was the site of the Purna Swaraj declaration of India's independence. The Wazir Khan Mosque was built in this city that was the Mughal capital from 1585 to 1598.

ANSWER: **Lahore**

[10] Lahore is the capital and largest city of this Pakistani province that shares its name with a neighboring state in India. The name of this province comes from the Indus River and its four main tributaries.

ANSWER: **Punjab**

[10] Between Lahore and Amritsar, Indian and Pakistani military forces in Wagah engage in elaborate military drill displays before the daily lowering of flags at one of these locations. The Ambassador Bridge and Detroit-Windsor Tunnel serve as these things linking Michigan and Ontario.

ANSWER: international **border crossings** [accept obvious synonyms, prompt on **borders**] <Ranganathan, Geography>

4. For 10 points each, answer the following about the interdisciplinary field of American studies.

[10] This scholar was an early American studies pioneer who wrote about the trope of the industrialization in American literature in *The Machine in the Garden*. With Merritt Roe Smith, this thinker explored technological determinism in his collection *Does Technology Drive History?*

ANSWER: Leo **Marx**

[10] An early method of American studies fell into this study of sign processes. This tradition, which includes literary critics like Mikhail Bakhtin and Roland Barthes ["bart"], broadly concerns how meaning is constructed and understood.

ANSWER: **semiotic** studies

[10] This Ivy League university prides itself on its oldest American Studies program in the country. One of the co-founders of the field, Henry Nash Smith, earned his PhD at this Massachusetts institution where electoral reformer Lawrence Lessig teaches.

ANSWER: **Harvard** University <Bunker, Other Social Science>

5. In the 1930s, the Federal Theatre Project established "Negro Theatre Units" around the country to perform and showcase work written by African-American authors. Name some things about, for 10 points each:

[10] The Newark Negro Unit produced a successful Hughes Allison play about one of these events centered on Dr. Beck. Rachel Brown, the daughter of a pastor, leaves town with Bertram Cates after one of these events in another play.

ANSWER: **trial** (the first play is *The Trial of Dr. Beck* and the second unnamed play is *Inherit the Wind*)

[10] The Chicago Negro Unit staged the first performance of *The Swing Mikado*, a swing and popular-dance based version of *The Mikado*. *The Mikado* was written by this librettist, who collaborated with Arthur Sullivan on *The Pirates of Penzance*.

ANSWER: William Schwenck **Gilbert**

[10] The New York Negro Unit performed *Voodoo Macbeth*, an all-black casting of *Macbeth* directed by this theatre and film director. An unusual object lands in Grover's Mill, New Jersey at the beginning of a radio broadcast performed by this theatre and film director that allegedly caused mass panic.

ANSWER: Orson **Welles** [the unnamed broadcast is *The War of the Worlds*] <Laurie, American Literature>

6. One member of this philosophical movement was the first to propose the inflationary notion of truth in his coherency theory. For 10 points each:

[10] Name this philosophical movement of Harold H. Joachim, whose most emblematic member wrote about the metaphysical reality of the Absolute in his book *Appearance and Reality*.

ANSWER: **British Idealism** [prompt on just **idealism** or **Neo-Hegelianism**] (the unnamed member was F.H. Bradley)

[10] Another British idealist, J.M.E. McTaggart, conceived of an A and B series for this phenomenon, that he claimed was "unreal." This concept was paired with space in Kant's account of the understanding.

ANSWER: **time**

[10] This other British philosopher, along with Russell, marked a turn away from British idealism. He tried to defend commonsense with his "here is one hand" argument.

ANSWER: George Edward **Moore** <Bunker, Philosophy>

7. Name some things about the nefarious presence of Iver Johnson guns in US History. For 10 points each:

[10] This Palestinian assassin used an Iver Johnson gun to kill Robert Kennedy during the 1968 Democratic Primaries.

ANSWER: **Sirhan Sirhan**

[10] Leon Czolgosz used an Iver Johnson gun to assassinate this US President who was succeeded by Theodore Roosevelt. He oversaw the Spanish-American War.

ANSWER: William **McKinley**

[10] This Italian immigrant used an Iver Johnson to shoot at Franklin Roosevelt during a speech in Chicago, but killed Chicago mayor Anton Cermak instead.

ANSWER: Giuseppe **Zangara** <Foos, American History>

8. Discretizing physical systems for simulation often causes nonphysical results. For 10 points each:

[10] Discretizing in the time domain can introduce errors when solving systems of the ordinary type of these statements, which are usually second-order in classical mechanics.

ANSWER: ordinary **differential equations** [or **ODEs**, or **diffeQs**; do not accept or prompt on "partial differential equations" or "PDEs"]

[10] Another discretization error occurs when the grid spacing in a simulated plasma exceeds this length, the length scale over which a plasma shields charges.

ANSWER: **Debye** length [prompt on **lambda-sub-D**]

[10] This specific discretization error in lattice field theory results in 2-to-the-dimensionality copies of some particles. It can be ameliorated by staggering the namesake fields.

ANSWER: **fermion doubling** problem <Mitchell, Physics>

9. The artist behind this song said he wanted to write about the black experience, but chose its subject since he can't write about chain gangs and never worked in a field. For 10 points each:

[10] Name this song, the first track of its composer's debut album *Takin' Off*. The 1972 version on *Head Hunters* added funk elements like Bill Summers blowing beer bottles imitating pygmy music.

ANSWER: "**Watermelon Man**"

[10] "Watermelon Man" is an enduring standard by this jazz fusion artist, whose other compositions include "Chameleon", "Cantaloupe Island", and "Maiden Voyage".

ANSWER: Herbie **Hancock** [or Herbie Jeffery **Hancock**]

[10] The popularity of "Watermelon Man" was also due to a 1963 version from this Cuban bandleader, who plays the conga drums. This Latin pop pioneer wrote the standard "Afro Blue".

ANSWER: Mongo **Santamaria** [or Ramón **Santamaría** Rodríguez] <Tsai, Other Auditory>

10. These people established a Khaganate under Bayan I, under whom they fought repeated wars with the Byzantine Emperor Maurice. For 10 points each:

[10] Name these people, whose successful siege of Sirmium helped trigger the Byzantine collapse in the Balkans. They settled the Pannonian Basin prior to the Magyars.

ANSWER: Pannonian **Avars** [or **Obri**]

[10] The Magyars would found this modern day country. Its medieval rulers included St. Stephen and Matthias Corvinus.

ANSWER: **Hungary**

[10] The Pannonian Avars were defeated partially by a ruler of this name, who defeated their namesake "Ring." Another ruler of this name established the Carolingian Dynasty.

ANSWER: **Pepin** [accept **Pepin** of Italy or **Pepin** the Short] <Laurie, European History>

11. This organelle was first observed in the mid-1950s by George Emil Palade actively participates in protein folding. For 10 points each:

[10] Name this organelle, which serves as the site of translation in a cell.

ANSWER: **ribosome**

[10] In bacterial cells, ribosomes are synthesized in the cytoplasm through the transcription of multiple of these functioning units of DNA, which contain a cluster of genes under the control of a single promoter.

ANSWER: **operon**

[10] This enzyme, which is part of the large ribosomal subunit, forms namesake bonds between adjacent amino acids using tRNAs during translation.

ANSWER: **peptidyl transferase** <Phadnis, Biology>

12. A "Sports City" being designed by this architect will consist of two symmetrical fan-shaped pavilions. For 10 points each:

[10] Name this architect, whose completed designs include the Turning Torso in Malmö and the World Trade Center Transportation Hub in New York City.

ANSWER: Santiago **Calatrava**

[10] The "Sports City" will be part of a university campus in this country, where the partial collapse of the Morandi bridge resulted in multiple redesign proposals by Calatrava. Instead, reconstruction is now being carried out by this country's native son Renzo Piano.

ANSWER: **Italy** [or **Italian Republic**; or **Repubblica Italiana**]

[10] Calatrava also designed a "City of Arts and Sciences" for Valencia which is actually one of these types of locations. Calatrava designed the Quadracci Pavilion for another one of these institutions in Milwaukee, which is housed in a War Memorial built by Eero Saarinen.

ANSWER: **art museums** [prompt on **museum**] <Hadley, Other Visual>

13. The chairman of one of this organization's competitors remarked that a 1974 *Fortune* story on its mismanagement was exposing the scheme to dismantle it. For 10 points each:

[10] Identify this organization established by the Nixon administration to operate passenger rail service in the continental United States, which it still does.

ANSWER: **Amtrak** [or the **National Passenger Railroad Corporation**]

[10] In 2005, Amtrak cancelled its *Three Rivers* service after the termination of a contract with this US government agency, which has come under fire due to a budget shortfall partially caused by regulations requiring it to pre-fund employees' pensions in full.

ANSWER: United States **Postal Service** [or **USPS**, or the United States **Post Office**]

[10] Amtrak's *Pioneer and Desert Wind* services were cancelled in 1997, with the latter cut leaving this city to be the most populous in America without scheduled passenger rail service. The privately-funded XpressWest project aims to connect this city to Victorville by high-speed rail.

ANSWER: **Las Vegas**, Nevada <Thompson, Other Academic>

14. A "perfect authentic" one of these configurations is a progression from the dominant to the tonic with both chords in root position. For 10 points each:

[10] Name these common configurations, such as chords, often used to end pieces to create resolution. The Italian translation of this word also names freestyled passages also used to end pieces.

ANSWER: **cadence** [accept **cadenza**]

[10] An imperfect authentic cadence may replace the dominant chord with one of these chords. One of these chords built on C would consist of the notes C, E flat, G flat, B double flat.

ANSWER: **diminished seventh** [prompt on partial answer]

[10] Baroque-era minor key works often end with this special type of major chord, often accomplished after holding the tonic triad before raising the diminished third to a major third.

ANSWER: **Picardy** third [or **Picardy** cadence, or **tierce picarde**, or **tierce de Picardy**] <Hadley, Classical Music>

15. A slave belonging to this character sings extremely terribly because he got no training, but this character remarked his only two faults are that "he snores and he's been circumcised." For 10 points each:

[10] Name this crass freedman, who hosts a lavish feast in the *Satyricon* and asks Habinnas to build a tomb for him. Encolpius runs away after a mock funeral of this character is mistaken for a fire.

ANSWER: **Trimalchio**

[10] Before attending Trimalchio's feast, Encolpius debates a Sophist with this name. In an Aeschylus tragedy, a king with this name is ambushed and killed by Aegisthus and Clytemnestra.

ANSWER: **Agamemnon**

[10] One offense Encolpius committed against the cult of Priapus was accidentally killing one of these sacred animals. After being paid off, the priestess Oenothea disembowels this animal to tell Encolpius his future.

ANSWER: a **goose** <Tsai, World/Other Literature>

16. The day before one of these ceremonies, the participants are anointed with a mixture of coconut milk and oil called roce ["roh-chay"]. For 10 points each:

[10] Identify these ceremonies performed among a certain religious community in Mangalore, in which one participant ties a pirduk, known as a mangalsutra to Hindus, around the neck of another participant.

ANSWER: **Christian weddings** [accept **Catholic** for Christian; prompt on **weddings** or **marriages** by asking "among adherents of what religion?"]

[10] Mangalorean Catholic brides usually wear a red sari known as a Sado woven in this holiest city in Hinduism, famous for its ghats on the side of the Ganges.

ANSWER: **Varanasi** [or **Benares** or **Banaras**]

[10] Marriage is one of these seven important rites recognized by the Catholic Church. They also include baptism, confirmation, and extreme unction.

ANSWER: **sacraments** <Ranganathan, Religion>

17. Thomas Rowlandson's comical series titled for this scene included "The Sot," where a fat man is carried out in a wheelbarrow. For 10 points each:

[10] Name this scene, which inspired a popular woodcut series by Hans Holbein the Younger from the 1520s. Depictions of this scene often see royalty, clergy and commoners join hands with allegorical figures, as seen in a massive fresco by Bernt Notke in Tallinn.

ANSWER: **danse macabre** ["dahns mah-cahb"] [or **Totentanz**; accept similar descriptions of the "the **dance of death**"]

[10] The danse macabre, as well as transi tomb sculptures and vanitas paintings, were popular ways in the Middle Ages to expound on this idea. This two word Latin motto is often represented by a skull.

ANSWER: **memento mori** [or translations like "**remember you will die**" or "**remember you are mortal**"]

[10] Holbein famously included the memento mori motif by showing an anamorphic skull in this painting. The two title men in this painting stand in front of a green curtain and next to symbolic items such as globes and a sundial.

ANSWER: *The **Ambassadors*** [or *The French **Ambassadors***] <Tsai, Painting>

18. In "Historians Who Love Too Much," Jill Lepore argued that this genre relies on the exemplariness, and not uniqueness, of the life of its subject. For 10 points each:

[10] Identify this genre of history writing that attempts to illustrate the contemporary mentalities of ordinary people through an analysis of a relatively obscure person. Carlo Ginzburg's *The Cheese and the Worms* is a seminal example of this genre.

ANSWER: **microhistory**

[10] Lepore distinguished microhistory from this genre, which insists on the uniqueness and import of their subjects. Ron Chernow's *Hamilton* and James Boswell's *The Life of Samuel Johnson* are examples of this genre.

ANSWER: **biography**

[10] Janet Malcolm analyzed the ethics of biography in this book, which centered on Jeffrey MacDonald's lawsuit of his biographer Joe McGinniss after he had faked believing in MacDonald's innocence to interview him.

ANSWER: *The **Journalist and the Murderer*** <Laurie, Other History>

19. The dedication of this poem mentions "Siberian snows" and how "The sun downed, the Neva got mistier." For 10 points each:

[10] Identify this long elegy about the Great Terror, during which the author's husband was killed. This poem ends by describing how "mute ships sail along the Neva."

ANSWER: **Requiem** (by Anna Akhmatova)

[10] Anna Akhmatova's *Requiem* was shared via samizdat. The first full-length novel to be shared via samizdat was by this man, who included "The End" and "In Memory of the Demon" in his collection *My Sister Life*.

ANSWER: Boris **Pasternak** [or Boris Leonidovich **Pasternak**]

[10] Anna Akhmatova's *Requiem* memorializes the victims of the purges of this Soviet leader. Osip Mandelstam mocked this leader in a namesake "epigram."

ANSWER: Joseph **Stalin** [or "**Stalin** Epigram;" or Iosif Vissarionovich **Stalin**; or Ioseb **Dzugashvili**] <Bunker, European Literature>

20. A dative covalent bond is a covalent bond in which two of these particles used for bonding derive from the same atom. For 10 points each:

[10] Name this particle that, in a pair, is transferred from a Lewis base to a Lewis acid. Molecular geometries can be predicted by considering pairs of this particle in the valence shell.

ANSWER: **electrons** [accept valence shell **electron** pair repulsion theory]

[10] Lewis acids and Lewis bases are commonly classified according to this theory in which small species with high charge states that are weakly polarizable are contrasted with big species with low charge states that are strongly polarizable.

ANSWER: **hard-soft acid-base** theory [accept **HSAB** theory; prompt on **Pearson acid-base concept/theory**]

[10] This adjective describes a compound or mixture containing a Lewis acid and Lewis base that, due to steric hindrance, cannot combine to form a Lewis adduct.

ANSWER: **frustrated** Lewis pair <Phadnis, Chemistry>

21. After being reminded of a Charles Lamb essay about Milton's "Lycidas," the speaker of this essay is denied entry into a library to look at the manuscript of that poem. For 10 points each:

[10] Name this essay, which imagines what would have happened to a woman who is impregnated by the actor-manager Nick Greene; that woman is Shakespeare's fictional sister, Judith.

ANSWER: *A **Room of One's Own***

[10] The essay *A Room of One's Own* was written by this member of the Bloomsbury Group, who also wrote *Mrs. Dalloway*.

ANSWER: Virginia **Woolf** [or Adeline Virginia **Stephen**]

[10] While reading Mary Carmichael's fictional *Life's Adventures*, Woolf pauses in *A Room of One's Own* after seeing a phrase about how one of these two people "liked" the other. The name of either person is acceptable.

ANSWER: **Chloe** [or **Olivia**; or "**Chloe liked Olivia**"] <O'Rourke, British Literature>

22. This mathematical object is the direct product of the cyclic group of order 2 with itself. For 10 points each:

[10] Identify this smallest non-cyclic group. It's also the group of symmetries of a non-square rectangle.

ANSWER: **Klein** four-group [prompt on **V4** or **Viererguppe**]

[10] Klein's bottle does not possess this property and thus one cannot make a consistent choice of normal vector for every point of the surface. A manifold must possess this property in order for integration to be well-defined on it, because integrals are performed with respect to its namesake concept.

ANSWER: **orientable** [accept word forms such non-**orientable**]

[10] Another example of a non-orientable manifold is a strip named for this mathematician. His namesake transformations are functions that are rational relations between linearly scaled and translated complex numbers.

ANSWER: August **Möbius** ["MOO-bee-us"] <Bunker, Mathematics>