

## PRISON BOWL XI: WE LOVE NO FISH

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### PACKET FOUR

#### Tossups

1.

**In this novel, one character’s family wants him to marry a half-Jewish orphan named Miss Swartz. One character in this novel wraps green yarn around a man’s arms while making a purse, and this novel includes the question, “Which of us is happy in this world?” The main character in this novel, which is framed by a puppet show, probably kills Jos for life insurance at its end. In this novel, (\*) Dobbin survives war but George Osborne dies just before the Battle of Waterloo after impregnating Amelia Sedley, a former student of Miss Pinkerton’s Academy and a friend of the anti-heroine, Becky Sharp. For 10 points, name this best-known novel by William Makepeace Thackeray.**

ANSWER: *Vanity Fair* [accept *Vanity Fair: Pen and Pencil Sketches of English Society*; accept *Vanity Fair: A Novel without a Hero*; prompt on either subtitle] <AL/CL>

2.

**Optimal surfactant doses can be determined using one type of this technique relying on the instability of colloids near the point at which zeta potential is insignificant. This technique is used in the Winkler test to study water samples, and its “redox” type uses (\*) potassium permanganate. One variant of this process innovated by Karl Fischer is used to detect small quantities of water. In this process, starch and methyl orange are examples of indicators used to determine the equivalence point of a chemical reaction. For 10 points, name this technique performed with a burette which is used to find a solution’s concentration.**

ANSWER: titration [accept word forms like titrating; accept acid-base titration; accept titrimetry; prompt on volumetric analysis] <AJ>

3.

**One of these things was called an ónoma in Ancient Greece, and X-bar theory replaced one which said “S” is equivalent to “VP” plus one of these things. Determiners are combined with these things, which usually serve as specifiers in inflectional phrases. In many European languages, the word for these things is a cognate of “substantive.” Some languages distinguish the (\*) alienable and inalienable types of these things. Nominalization results in certain words becoming these things. In a typical English sentence structure, the predicate directs a type of this part of speech called the subject. For 10 points, name these parts of speech, usually described as people, places, or things.**

ANSWER: nouns [accept noun phrases; accept names until “VP”; begrudgingly prompt on objects; prompt on subjects until mention; prompt on things until mention] <CL>

4.

**This figure is usually thought to be the central figure of a text known as “The Star.” The word “trustworthy” is often used to describe this figure, and according to Umar, this figure has jet black hair and white clothing. In one incident, this figure physically removed a man’s (\*) heart in order to fill it with wisdom. In one incident, this figure urged a man to “proclaim.” This nonhuman figure was the first being to be created by Allah, and in one religion, this figure told Mary she was pregnant with Christ. For 10 points, name this archangel who delivered the first revelation to Muhammad.**

ANSWER: Jibreel [or Jibra’il; accept Gabriel] <AJ/CL>

5.

**The Battle of Beshbalik was a devastating defeat for this dynasty, as was King Trisong Detsen’s destruction of its capital. Both empires of the Gokturks were defeated during this dynasty, and Hou Junji conquered the Tarim Basin for this empire. A rebellion by nobles of this dynasty was crushed by its usurper, (\*) Empress Wu Zetian. The Battle of Talas River was an Abbasid victory against this empire, ending its domination of Central Asia. An Lushan, a general of this dynasty, rebelled against it and caused its emperor to flee from Chang’an. Succeeding the Sui dynasty, for 10 points, name this Chinese dynasty from 618 to 907, sometimes called a “golden age.”**

ANSWER: Tang Dynasty [or Tang Empire] <DM>

6.

**In one work by this author, Magdalena saves two houseguests from her husband, Buck Scales. A protagonist created by this author asks for money to fund her study in Germany from Doctor Archie. This author who described Godfrey St. Peter and the late Tom Outland in *The Professor’s House* wrote about (\*) Thea Kronborg in another work. A cat climbs a telegraph pole at the beginning of this author’s novel about Alexandra, which forms a cycle with one about Jim Burden and the title Bohemian woman and *The Song of the Lark*. For 10 points, name this American author who set many works in Nebraska and included *My Ántonia* and *O Pioneers!* in her *Prairie Trilogy*.**

ANSWER: Willa (Sibert) Cather <CL>

7.

**The principle of complementarity was demonstrated by a version of this experiment, the Afshar experiment. The output is determined by the path of one particle in a variant of this experiment known as the quantum eraser. One phenomenon involved in this experiment results if the difference in path length is an integer multiple of another quantity. That phenomenon is (\*) constructive interference. This experiment contradicted the corpuscular theory of light by proving its wave-particle duality. For 10 points, name this experiment where light was shined through two namesake apparatuses, first performed in 1801 by Thomas Young.**

ANSWER: Young’s double-slit experiment [accept either until “Young”] <BC>

8.

**This architect developed a plan for a house which eliminated ceiling support beams in order to facilitate mass construction, known punningly as the Dom-ino House. With Amédée Ozenfant, this architect co-founded Purism, a movement which strove to eliminate detail and was an offshoot of Cubism. This architect used a central ramp in one of the homes he designed in Poissy (“PWA-sea”), and he built upon plans by Maciej Nowicki (“MA-chey NOVE-its-ki”) and Albert Mayer to design a (\*) planned city featuring an “open hand” motif and partially based on his “Radiant City.” This designer of Chandigarh outlined five points in his *Toward an Architecture*. For 10 points, name this Swiss-French architect behind the Villa Savoye.**

ANSWER: Le Corbusier [accept Charles-Édouard Jeanneret] <GA/CL>

9.

**In Helsinki, a member of this politician’s administration described one policy as “every country decides on its own which road to take.” This politician ran for one office as an independent in 1996 and also met with one world leader at the Höfði (“HOV-thee”)House in Reykjavik, though the successes of that summit were limited by the Strategic (\*) Defense Initiative. According to this politician, “what we need is Star Peace and not Star Wars,” and his tenure saw the withdrawal of troops from Afghanistan. This politician’s policies of governmental transparency and political reform were known as glasnost and perestroika. For 10 points, name this last leader of the Soviet Union.**

ANSWER: Mikhail (Sergeyevich) Gorbachev <CO>

10.

**In the *Mahabharata*, Indra agrees not to kill one of these animals with anything dry or wet, or at day or night, but finds a loophole by killing him with sea foam at twilight. Visha has one of these animals named Vasuki on his neck, and a Minoan goddess was often depicted holding two of these animals in her hands. In (\*)**

Australian mythology, this kind of animal lives in waterholes that never dry up and represent rainbows. In Norse myth, one of these animals was slain by Thor and had encircled the world. One of these animals created from spit and dirt by Isis bit Ra. For 10 points, name these animals, one of which tricked Eve into eating the Forbidden Fruit.

ANSWER: snake [accept serpent] <AL/RY>

11.

**A damaged one of these structures decreases the production of steroid sulfatase and a defect in this structure decreases the production of the protein FMRP. The SHOX (“shocks”) region of this structure leads to the short stature and webbed neck caused by an absence of one of these structures. In lyonization, this structure can be deactivated to form a (\*) Barr body. Having an extra one of this structure can lead to Klinefelter syndrome and the genes that cause hemophilia and colorblindness are on this chromosome, which causes their higher incidence in males. For 10 points, name this human sex chromosome contrasted with Y.**

ANSWER: X chromosome [prompt on sex chromosome or allosome; prompt on chromosome] <BC>

12.

**In one story by this author, Filberto drowns while trying to escape the influence of a stone sculpture. In one of his novels, the title woman with bright green eyes turns into an old woman after Montero takes a job organizing a dead general’s journals. In addition to “Chac Mool” and *Aura*, this author wrote about a man who goes on a journey with his copy of (\*) *Don Quixote* and meets Harriet Winslow. That man described by this author is Ambrose Bierce, and this author also wrote about an old man describing the history of the PRI. For 10 points, name this Mexican writer of *The Old Gringo* and *The Death of Artemio Cruz*.**

ANSWER: Carlos Fuentes (Macías) [prompt on Carlos Macías] <CL>

13.

**In January 2018, this country’s &Proud festival was first held in public. In 2016, this country invented the new position of State Counsellor. The National League for Democracy in this country considers prominent politician Htin Kyaw (“TIN TCH-ough”), Thein Sein’s (“TH-ain SANE”)successor, an ally. This country was in the news in 2017 for incidents in its (\*) Rakhine province, from which many have fled north. This majority Buddhist country’s leading politician, Nobel Peace Prize recipient Aung San Suu Kyi, has been criticized for her minimal response to the genocide of this country’s Rohingya people. For 10 points, name this Asian country with capital at Naypyidaw and largest city Yangon.**

ANSWER: Republic of the Union of Myanmar [accept Burma] <CL>

14.

**The Botocudo people, or Aimoré, lived in this country before being nearly eliminated by its colonizers. The earliest known paintings in the Americas are at Painted Rock Cave in this country, where terra preta was used by the Marajoara culture. Swidden agriculture was introduced to this country's (\*) Yanomami tribe as a result of European contact, which began with Pedro Cabral. This country's cities of Belém and Manaus profited from a rubber boom that dispossessed land held by several forest-dwelling tribes. For 10 points, name this country in which the Portuguese Empire displaced indigenous peoples living in the Amazon rainforest.**

ANSWER: Federative Republic of **Brazil** [accept República Federativa do **Brasil**] <DM>

15.

**A man wearing a yellow tie stands beside three sticks tied together in one work by this artist, and in another, three black-suited men decide to cancel an event due to rain. This artist, whose namesake museum is in Stockbridge, Massachusetts, painted a young boy and a woman praying in a (\*) restaurant in *Saying Grace*. A word scrawled on a wall provides the backdrop to this artist's depiction of a young girl being escorted down the street by military men, *The Problem We All Live With*. A man in a blue plaid shirt talks in a town meeting in this artist's *Freedom of Speech*. For 10 points, name this American artist whose work for *The Saturday Evening Post* included *The Four Freedoms*.**

ANSWER: Norman (Percevel) **Rockwell** <CL>

16.

**The “worst joke in legal history” was said by one lawyer in this case which was the first in a line of decisions including *Stenberg v. Carhart*. The result of this case was “an exercise of raw judicial power” according to senior dissenter Justice (\*) White, although it acknowledged the importance of a “compelling state interest.” The principle established by this case was replaced by the “undue burden” standard. Justice Blackmun wrote the majority opinion for this case, which extended the right to privacy and established a trimester framework. For 10 points, name this 1973 Supreme Court case which ruled that, under certain circumstances, women have the right to have an abortion.**

ANSWER: **Roe** v. *Wade* [do not accept or prompt on “Wade v. Roe”] <CL>

17.

**These objects are the result of the function “explode” in php. The distance in memory between entries in these objects is known as its “stride.” A lack of bound checking of these objects can cause overwriting of memory addresses. These objects can be dynamically resized to allow (\*) retrieval time to remain the same. Maps and dictionaries are considered associative forms of these objects, and one-dimensional versions of these objects can be considered linear. In most languages, these objects' indices start at zero. For 10 points, name these objects whose two-dimensional forms are known as matrices.**

ANSWER: **arrays** <AJ>

18.

**In one work, a character says this author's will is held by “adamantine chains.” In addition to “My Secret Book,” this author wrote a “Letter to Posterity,” included in his collection *Seniles*. This author recounts spontaneously climbing a French mountain with his brother in one work, and he was inspired by Plutarch's *Parallel Lives* to describe figures like Romulus and Heracles, examples of the title (\*) *Illustrious Men*. Scipio Africanus plays a major role in this author's *Africa*, and he wrote 366 poems alternately titled as a “songbook” or a set of “scattered rhymes” dedicated to Laura. For 10 points, name this Italian poet of the Renaissance, the author of *Il Canzoniere*.**

ANSWER: **Petrarch** [accept Francesco **Petrarca**] <CL>

19.

**A geographic feature which shares its name with this country is also known as the Great Dala and extends eastward to the Emin Valley. The leader of this country works in the Akorda, and the capital of this country, formerly Aqmola (“AK-mola”), has been located on the Ishim River since 1997. The right side of this country’s flag features an eagle soaring beneath a (\*) sun, and this country exports very little potassium, despite the claims made in a Sacha Baron Cohen movie. This largest landlocked country in the world contains the northern coast of the rapidly sinking Aral Sea, and it also borders the Caspian Sea to its west. For 10 points, name this former Soviet republic with its capital at Astana.**

ANSWER: Republic of **Kazakhstan** [accept **Qazaqstan** Respublikasi] <AJ/CL>

20.

**This composer modified the trio sonata instrumentation in six works for organ. This composer emphasized terraced dynamics of an instrument in the “Echo” movement of his *French Overture*. One collection by this composer begins with a “C D E F D E C G” theme. For the new (\*) fortepiano, this man wrote the six-voice fugue *Ricercar a 6*. This man wrote the Two and Three Part Inventions for harpsichord. This composer wrote the *Toccatà and Fugue in D Minor* for organ and invented the harpsichord concerto with his fifth Brandenburg Concerto. For 10 points, name this composer of the *Well-Tempered Clavier*.**

ANSWER: **Johann Sebastian Bach** [prompt on **Bach**] <DM>

TB.

**One of this author’s works transposes some historical events, such as the divorce of Pompeia. This author of *The Ides of March* wrote one work that sees the monk Brother Juniper trying to learn why God’s plan for five people had them die when the title structure (\*) collapses. One of this author’s plays ends with one character saying goodbye to her mama’s sunflowers and to “sleeping” and “waking up,” and another play follows a family that survives an ice age, the Antrobus family. This writer of *The Skin of Our Teeth* wrote one play featuring Emily Webb and set in Grover’s Corners. For 10 points, name this playwright of *Our Town*.**

ANSWER: Thornton **Wilder** <RY>

## **Bonuses**

1.

This album's composer worked with Bill Evans to write two of its tracks. For 10 points each:

[10] Name this 1959 album by Miles Davis which also features the pieces "Freddie Freeloader" and "So What." Other musicians on this album include Cannonball Adderley and Paul Chambers.

ANSWER: **Kind of Blue**

[10] *Kind of Blue* expanded on Davis's earlier work on the album *Milestones* in this jazz genre. Herbie Hancock was another important musician in this genre named for a set of types of scales.

ANSWER: **modal** jazz [prompt on **scalar** jazz]

[10] "So What" was written in two alternating versions of this mode, one starting on D and one starting on E flat. Davis's composition "Milestones" is also mostly in this mode.

ANSWER: **Dorian** mode [accept **Doric** mode; prompt on descriptions like the scale starting on the **second** scale degree] <CL>

2.

This character was switched at birth with the title character of the work she appears in, leading to Sister Gudule accusing her of eating her child. For 10 points,

[10] Name this character, whose act includes a pet using wooden tiles to spell the name Phoebus, the Captain of the King's Archers who this character becomes obsessed with.

ANSWER: **Esmeralda** [accept **Agnés**]

[10] This other character dies embracing Esmeralda's corpse and is the adopted son of the Archdeacon Claude Frollo. In one scene, he is elected Pope of Fools.

ANSWER: **Quasimodo** Sunday [prompt on **Sunday**]

[10] Quasimodo is the main character in *The Hunchback of Notre-Dame*, which was written by this French author of *Les Misérables*.

ANSWER: Victor Marie **Hugo** <RY>

3.

Ouch! What is that abdominal pain? For 10 points each, name some things about one possible answer.

[10] Maybe you're suffering from the peptic type of this problem, which can be caused by *H. pylori* bacteria. These membrane discontinuities often occur in the stomach and can be caused by stress.

ANSWER: **ulcers** [accept stomach **ulcers** or peptic **ulcers** or stress **ulcers**]

[10] Your peptic or stress ulcer might be located in the stomach, but it could also be located in this structure. This first section of the small intestine precedes the jejunum and the ileum.

ANSWER: **duodenum**

[10] Perhaps you got your ulcer by using this class of drugs which work by limiting the abilities of cyclooxygenase enzymes. Naproxen is one of these drugs.

ANSWER: **nonsteroidal anti-inflammatory** drugs [or **NSAIDs**] <AL/CL>

4.

One policy by this businessman sparked a 1963 sit-in protest in Bowie, Maryland. For 10 points each:

[10] Name this businessman who transported materials from Blue Lake, California for building construction in the Northeast, including locations in Willingboro Township and Bucks County. He operated his family's company with his brother, Alfred.

ANSWER: William (Jaird) **Levitt**

[10] Levitt became notorious for his exclusionary real estate development in these places, the destination of "white flight" in the 1950s.

ANSWER: **suburbs** [or **suburban** towns; accept **suburbia**; prompt on **towns** or **developments**]

[10] This informal bank policy, named after color-coded maps of classes of neighborhoods, excluded blacks and other racial minorities from taking out loans to buy homes in suburban areas.

ANSWER: **redlining** [accept word forms] <BL/GA>

5.

For 10 points each, name these things about the tremendous increase in the number of left-leaning political podcasts since the 2016 American presidential election.

[10] One of the most popular new shows, *Pod Save America*, is hosted by Dan Pfeiffer, Jon Favreau, Jon Lovett, and Tommy Vietor, all of whom worked in the administration of this 44th U.S. President replaced by Donald Trump.

ANSWER: Barack Hussein **Obama II**

[10] *Pod Save America* is put out by this new media company, founded in 2016 by three of the podcast's hosts. This company takes its name from an adjective used by Trump to suggest the media and Hillary Clinton are corrupt.

ANSWER: **Crooked** Media [accept **Crooked.com** or **Crooked Hillary**]

[10] *Stay Tuned*, another new podcast, is hosted by this Indian-American former U.S. Attorney, who was tough on corruption and Wall Street in his New York district. Trump notably fired this Obama appointee in 2017.

ANSWER: Preet (inder Singh) **Bharara** <CL>

6.

A movement named for a "new" version of this belief is supported by Sam Harris and Richard Dawkins and argues that religion should not be tolerated. For 10 points each:

[10] Name this belief that a God or gods do not exist.

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

[10] One argument for atheism was developed by Bertrand Russell and argues that just because one cannot disprove the idea that one of these objects orbits the Sun does not mean he should expect anyone to believe so without proof.

ANSWER: **teapot** [accept Russell's **teapot**]

[10] This French philosopher was a prominent atheist during the Enlightenment and wrote works opposing religion such as *The System of Nature*. He also worked with Denis Diderot on the *Encyclopédie*.

ANSWER: Paul-Henri Thiry, Baron **d'Holbach** [accept Paul Heinrich **Dietrich**] <CL>

7.

Though he's celebrated around the world, some cities were more important to Shakespeare than others. For 10 points each:

[10] Most of Shakespeare's histories are set in this city, which is also the location of the Globe Theatre, where his plays were typically performed.

ANSWER: **London** [prompt on **Southwark**]

[10] This city serves as the setting for *Romeo and Juliet*, prologue to which opens, "Two households, both alike in dignity, / In fair [this city], where we lay our scene."

ANSWER: **Verona**

[10] In *The Taming of the Shrew*, Petruchio travels from Verona to this other Italian city which serves as the main setting of the play. Baptista Minola lives in this city with his daughters Bianca and Kate.

ANSWER: **Padua** [accept **Padova**] <CL>

8.

For 10 points each, name some states with ten thousand of something.

[10] The Ten Thousand Islands, not to be confused with the Thousand Islands, are located in this state, split between their namesake Wildlife Refuge and a neighboring National Park.

ANSWER: **Florida**

[10] In this state, fumaroles produced "ten thousand smokes" in a national park south of the Cook Inlet. Another national park in this state lies in its Brooks Range.

ANSWER: **Alaska**

[10] California doesn't have many lakes. Rather, the Los Angeles Lakers got their name from this state, the "Land of 10,000 Lakes." This state's lakes include Lake Itasca, the origin of the Mississippi River.

ANSWER: **Minnesota** <DM>

9.

Sometimes, a Quiz Bowl tournament can feel like whirlwind of emotion! For 10 points each, name some things about a certain related destructive phenomenon.

[10] These weather phenomena occurs when a funnel cloud touches the ground. They commonly occur in a namesake "alley" in the middle of the United States.

ANSWER: **tornadoes** [accept **twisters**; accept **cyclones**]

[10] The intensity of a tornado is usually measured on an "enhanced" version of a previous scale, or from T0 to T11 on another. Name either of the scale that was enhanced or the other scale.

ANSWER: **Fujita** scale or **TORRO** tornado intensity scale [accept either; accept **Fujita**-Pearson scale; prompt on **F**-scale or **FPP** scale or **T**-scale]

[10] Tornadoes often develop from these particularly large and rare rotating thunderstorms, which contain a persistent updraft.

ANSWER: **supercells** <BL>



10.

For 10 points each, name some things about that time Jacques Parizeau (“pa-ree-ZO”) blamed the results of a referendum on “money and ethnic votes.”

[10] The referendum which sparked Parizeau’s comment took place in this country and was the second regarding the independence of this country’s province Quebec.

ANSWER: **Canada**

[10] Parizeau made his comment in this Canadian city. This city hosted Expo 67 during the Quiet Revolution, and also hosted one iteration of the Olympics during the 1970s.

ANSWER: **Montreal**

[10] This man was Canada’s Prime Minister at the time of Parizeau’s remark, having succeeded Kim Campbell in 1993, and was the subject of an assassination attempt after the referendum.

ANSWER: (Joseph Jacques) Jean **Chrétien** <DM/CL>

11.

For 10 points each, answer some questions about Impressionists who painted balconies.

[10] In this man’s painting *The Balcony*, fellow artist Antoine Guillemet (“gi-AY-may”) stands behind two white-clad women who gaze over a green rail. This artist also painted *Olympia* and *Luncheon on the Grass*.

ANSWER: Édouard **Manet**

[10] This French artist of *The Cradle* and sister-in-law of Manet appears sitting down in his work of a balcony, and also painted a work titled *On the Balcony* in which a woman leans on the railing next to her child.

ANSWER: Berthe (Marie Pauline) **Morisot** (“mo-ree-ZO”)

[10] Despite the name, this work takes place on a balcony at the Maison Fournaise which is covered by a red-and-white awning. The man in a straw hat at the far left, Gustave Caillebotte (“kye-BOT”), was a friend of this work’s artist.

ANSWER: **Luncheon of the Boating Party** [accept **Le Déjeuner des Canotiers**] <GA>

12.

Some troops involved in this battle were stationed near the church of St. Ninian. For 10 points each:

[10] Name this 1314 battle in which Edward II failed to relieve a siege on Stirling Castle, losing to the troops of Robert the Bruce.

ANSWER: Battle of **Bannockburn**

[10] The Battle of Bannockburn took place during a war for this country’s independence. Besides Robert the Bruce, heroes of this constituent country of the United Kingdom include William Wallace, and its capital is Edinburgh.

ANSWER: **Scotland** [accept **Alba**]

[10] Although Robert the Bruce’s corpse is buried at Dunfermline Abbey, this thing of his, which was kept for a time by James Douglas, is buried at Melrose Abbey.

ANSWER: **heart** <CL>

13.

In mathematics, this thinker used intersecting conics to find geometric solutions for cubic equations. For 10 points each:

[10] Identify this poet and astronomer whose most famous collection was translated from Arabic into English by Edward FitzGerald and includes the line, “The Moving Finger writes; and, having writ / Moves on.”

ANSWER: Omar **Khayyam**

[10] Omar Khayyam is best known for this collection of quatrains which contains the aforementioned quote as well as the line, “A Jug of Wine, a Loaf of Bread—and Thou.”

ANSWER: the **Rubaiyat** of Omar Khayyam

[10] In the most famous version of FitzGerald’s translation, that quatrain in the *Rubaiyat* opens by describing one of these specific objects “underneath the Bough.”

ANSWER: a **Book of Verse** <CL>

14.

The music from this work is adapted from an unfinished grand opera by its composer titled *The Building of the Boat*. For 10 points each:

[10] Name this orchestral suite based on selected runos from a certain country’s national epic. A cor anglais represents the title bird in one work in this suite, *The Swan of Tuonela*.

ANSWER: **Lemminkäinen Suite** [accept **Four Legends from the Kalevala**]

[10] This Scandinavian composer of the *Lemminkäinen Suite* (“lem-in-KAI-nen”) also assembled a series of six “tableaux” into his nationalistic tone poem, *Finlandia*.

ANSWER: Jean **Sibelius** [accept Johan Julius Christian **Sibelius**]

[10] One of Sibelius’ final works before his infamous “Silence of Järvenpää (“yar-WEN-pie”)” was his incidental music to this Shakespeare play. He used a harp and percussion motif to represent the main character, who is served by Caliban.

ANSWER: *The* **Tempest** <GA>

15.

Springs are one illustrative example of this type of motion. For 10 points each:

[10] Name this type of motion in which the displacement and restoring force are directly proportional and have opposite directions.

ANSWER: **simple harmonic** motion [or **SHM**; accept **simple harmonic** oscillators or **SHOs**; prompt on partial; prompt on **periodic** motion; prompt on **oscillation**]

[10] The motion of these things can be approximated by simple harmonic motion via the small-angle approximation. One of these things consists of a mass hanging from a string and allowed to swing freely.

ANSWER: simple (gravity) **pendulums**

[10] A “Scotch” type of this device can also be used to produce simple harmonic motion. More generally, this device is used in an agricultural context to help two animals, such as oxen, move a mass together.

ANSWER: **yokes** [accept Scotch **yokes**] <CL>

16.

This thinker particularly had problems with a statement by Johann Tetzel about the sale of indulgences. For 10 points each:

[10] Name this Christian thinker who kickstarted the Protestant Reformation and believed that one's fate was determined by faith alone.

ANSWER: Martin **Luther** [prompt on **Martin**; do not accept or prompt on "Saint Martin"]

[10] According to legend, Luther started the Reformation by nailing this document to doors of churches in Wittenberg. It accused the clergy of corruption and distracting Christians from repentance.

ANSWER: **95 Theses** [accept **Disputation on the Power of Indulgences**; prompt on **Theses**]

[10] Luther sent his *Theses* to Albrecht von Brandenburg, who used Tetzel's indulgence sales to repay his debt for rebuilding St. Peter's Basilica and was archbishop of this city. The B42 text was created in this city in the 1450s.

ANSWER: **Mainz** [accept **Mayence**] <CL>

17.

There are lots of goyim in America known for their writing, but let's not forget the Jews. For 10 points each:

[10] Name this Beat poet who invoked his Jewish heritage to write "Kaddish" after his mother's death, and also wrote about seeing "the best minds of [his] generation destroyed by madness" in "Howl."

ANSWER: (Irwin) Allen **Ginsberg**

[10] This novelist who focuses on the Jewish-American experience set many of his works in Newark and created the recurring character Nathan Zuckerman, who appears in *American Pastoral*. He also wrote *Portnoy's Complaint*.

ANSWER: Philip (Milton) **Roth**

[10] This Jewish-American writer produced several novels about Orthodox and Hasidic Jewish communities in Brooklyn, including *The Chosen*, *The Promise*, and *My Name is Asher Lev*.

ANSWER: Chaim **Potok** <CL>

18.

For 10 points each, name some things about the octet rule.

[10] The octet rule says that many elements will bond such that they have this number of valence electrons. This is also the atomic number of oxygen.

ANSWER: **eight**

[10] This element can violate the octet rule, such as in its trifluoride in which it only has six valence electrons. It is frequently used as a fiberglass additive.

ANSWER: **boron** [prompt on **B**]

[10] This scientist developed one of his theories based on an early form of the octet rule, which he referred to as Abegg's rule. He also was the first to use the term "fugacity."

ANSWER: Gilbert (Newton) **Lewis** <CL>

19.

This goddess, the daughter of Zeus and Leto, may have accidentally killed her hunting partner Orion, the only person she ever loved due to her vow of chastity. For 10 points each:

[10] Name this Greek goddess of the hunt, the twin sister of Apollo.

ANSWER: **Artemis** [do not accept or prompt on "Diana"]

[10] Artemis sent this beast to the realm of King Oeneus ("EE-nee-us") when she was forgotten at a harvest sacrifice. It was hunted and killed by Meleager and Atalanta.

ANSWER: **Calydonian Boar** [accept **Aetolian Boar**; prompt on **boar**]

[10] These figures wished to take kidnap Artemis and Hera and take them as their wives. However, Artemis transformed into a deer, and jumped between them, causing them to throw their spears and kill each other.

ANSWER: the **Aloadae** [accept **Otus and Ephialtes** in either order] <RY>

20.

He “found the crown of France in the gutter.” For 10 points each:

[10] Name this French general and Emperor, who conquered much of Europe with his Grande Armée before it was largely destroyed in a disastrous invasion of Russia.

ANSWER: **Napoleon I** [or **Napoleon Bonaparte**; prompt on **Bonaparte**]

[10] Napoleon signed the Concordat of 1801 with this Pope, reconciling the French government and the Catholic Church. Napoleon also took his crown from this Pope’s hands and coronated himself.

ANSWER: **Pius VII**

[10] Napoleon’s first abdication took place in this French town, the namesake of an earlier edict which revoked the Edict of Nantes. A treaty named after this town signed by Napoleon in 1814 would have divided Portugal in three.

ANSWER: **Fontainebleau** <BL>

TB.

This figure became the first human to wound two Olympians in a single day, when he was aided by the goddess Athena. For 10 points each:

[10] Name this hero who fought in the Trojan War.

ANSWER: **Diomedes** [accept **Diomedes**]

[10] One of the Olympians Diomedes wounded was this Greek god of war, who came onto the battlefield after Diomedes injured his lover, Aphrodite.

ANSWER: **Ares** [do not accept or prompt on “Mars”]

[10] Diomedes managed to trade his bronze armor for the more valuable gold armor of this grandson of Bellerophon. After Diomedes revealed that his own grandfather had hosted Bellerophon, this man had his wits stolen by Zeus.

ANSWER: **Glaucus** <RY>