Penn Bowl 2016 Packet 1

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Tossups:

1. People who practice this religion but who have not been formally initiated are simply referred to as "strangers." A tale about a woman who cuts off her ear to please her warmongering lover is one of this religion's sacred pataki stories. Initiates into this religion have multicolored beads placed on them in ile [ee-lay] houses. A practice of this religion that can be substituted with an adimu or isogui came under scrutiny in an instance in which laws were "gerrymandered with care" to (*) restrict one of its practices. When being initiated into this religion, participants receive iron tools and construct an image of Elegua before wearing white for a year. In 1993, the Supreme Court upheld this religion's right to sacrifice chickens. For 10 points, name this Afro-Cuban religion which syncretizes Yoruba beliefs with Catholic traditions like saints.

ANSWER: Santeria [or Regla de Ocha; accept the Order of Lucumi] or La Regla Lucumi; prompt on Yoruba religion until "Yoruba" is read]

- 2. Haydn's Symphony No. 31 was nicknamed after this instrument due to the large number of them in the Esterhazy orchestra at the time. Richard Strauss dedicated his second concerto for this instrument to the memory of his deceased father, who was the principal player of this instrument for the Munich court orchestra. In Tchaikovsky's fifth symphony, a solo for this instrument introduces the main theme in the second movement. A solo for this instrument opens the second piano concerto by (*) Johannes Brahms, who wrote an E-flat trio for it, violin, and piano. Mozart's fourth concerto for this instrument contains a Rondo final movement designed to evoke a hunt. Four of them were found in a standard Romantic orchestra; before then, these instruments and trumpets were usually the only brass. For 10 points, name this circular, coiled brass instrument. ANSWER: French horn [do not accept "English horn"]
- 3. The group that describes this force can be shown to be simply connected using the "Plate trick." Spontaneous symmetry breaking generates a photon and a particle that carries this force by rotating the original vector boson plane through the Weinberg angle. The leptonic branching ratio of one carrier of this force can be calculated as approximately one-ninth. A polarized cobalt-(*)60 nucleus was used to show that this force violates parity conservation by CS Wu. Glashow, Weinberg, and Salam unified this force with the electromagnetic force. For 10 points, name this force which is mediated by the W and Z bosons and which is responsible for beta decay.

ANSWER: weak force

4. This psychologist considered RNA molecules as possible explanations for one of his theories but did not realize that only about 3% of RNA codes for protein. "Neo-" theories named for this psychologist include one by Michael Commons that suggests axioms form a hierarchy of subtask actions and one on processing potentials by Andreas Demetriou. This psychologist, who often collaborated with Barbel Inhelder, discussed manufactured mental frameworks known as (*) "schema." This psychologist studied concepts like the ability to focus on subclasses and determine water levels in a beaker. This psychologist's most famous theory described the elimination of egocentrism and the acquisition of object permanence in the concrete operational, formal operational, and sensorimotor stages. For 10 points, name this Swiss psychologist who studied child development. ANSWER: Jean Piaget

5. The necklace of Harmonia was made from the hair of these figures, one of whom turned into an owl until Zeus fell asleep before appearing in the form of a beast to Dionysus. The Harpies took the daughters of King Pandareus to be servants to these figures. In the *Aeneid*, one of these figures turns into a small bird and flies in the face of Turnus during battle, while another (*) implants a snake in Amata's chest to drive her insane. Oedipus dies in a grove sacred to these beings. They're not the Meliae, but these figures emerged from Uranus's blood falling on the earth, not the sea. Dido called on these figures when she was on her funeral pyre, and examples

of these figures include Alecto, Megaera, and Tisiphone. These figures were ironically called the "kindly ones," or the Eumenides. For 10 points, name these goddesses of vengeance, especially for the murder of a parent.. ANSWER: **Furies** [or **Dirae**; or **Erinyes**; accept **Eumenides** until it's read]

- 6. This neurotransmitter is secreted by neurons in cell groups A8 through A14. Agonists of its receptors are used to treat restless legs syndrome. Blockade of this compound's second receptor is the most likely cause of neuroleptic-malignant syndrome. It is used extensively by a pathway that stretches to the nucleus accumbens from the ventral (*) tegmental area called the mesolimbic pathway. Both typical and atypical antipsychotics block this compound's receptors. It is preferentially secreted by a group of cells in the basal ganglia called the substantia nigra, whose degeneration results in a neurodegenerative disease with tremors and a shuffling gait. For 10 points, name this neurotransmitter involved in pleasure and reward, which is underproduced in Parkinson's disease. ANSWER: dopamine [or 3,4-dihydroxyphenethylamine]
- 7. A contrafact by this musician that makes use of B flat rhythm changes is possibly named for his drug dealer Emry Byrd. A Miles Davis-written song titled "Donna Lee" was attributed to this man for years. With Norman Granz, this composer of "Mooche the Moose" produced two albums in which he played with a classical string section, each titled "[him] with Strings." Bud Powell notably covered a version of a song this man created with the trumpeter (*) Benny Harris; that song is a contrafact of "How High the Moon." With Dizzy Gillespie, this artist wrote the song "Ko-Ko" and he pioneered a fast-paced, improv-heavy style called bebop. For 10 points, name this jazz saxophonist who was nicknamed "Bird."

 ANSWER: Charlie Parker [accept Bird until mentioned]
- 8. Thomas Carlyle nicknamed one ruler of this house "Super-Grammaticam" for scolding a cardinal who corrected his Latin. One ruler of this house married the last Premyslid princess and died at the Battle of Crécy. Besides the blind King John, another ruler of this house, Charles IV, formalized the prince-elector system with the Golden Bull of 1356. In the 14th and early 15th centuries, this dynasty ruled Bohemia and competed with the (*) Wittelsbachs over the Holy Roman Empire. Another ruler of this house was the last Holy Roman Emperor before a long line of Habsburgs; that ruler was Sigismund. The namesake region of this house was under personal union from 1815 to 1890, when Salic law prevented Wilhelmina of the Netherlands from inheriting. For 10 points, name this dynasty that shares its name with a Grand Duchy in the Low Countries. ANSWER: House of Luxembourg
- 9. One character in this play brags about eating yogurt and tries to give a man an English muffin because "breakfast is the most important meal of the day." In this play, a man asked to name a device used for spreading dead pigs' legs simply says, "Things are what they are." Another character in this play accuses the lesbian couple Grace and Ruthie of being stingy about toast and cheating at cards together. Due to a mixup in hospital names, a man in this play refuses to believe that (*) Fletcher was mugged by Mexicans and hits the young junk shop employee who told him so. After hearing that a customer has left for the weekend with a suitcase, Don and Teach plan a burglary before realizing that Bob had been lying. For 10 points, name this David Mamet play about an attempt to steal a coin collection containing a nickel named for and depicting a bison. ANSWER: American Buffalo
- 10. The longest-serving holder of this position clashed with a First Lady over the SS *Quanza*. Another holder of this position was called "everyone's number 2" and nearly resigned when his daughter planned to marry a black man who worked for NASA. When asked about sanctions on Iraq, the first woman to hold this post infamously said that "the price is worth it" in a 60 Minutes interview; that person was involved in the Wye River Memorandum and was born in (*) Czechoslovakia. One man who held this position arranged a meeting with Zhou Enlai before Richard Nixon's visit to China, and another was attacked by Lewis Powell on the night Lincoln was assassinated. Those holders of this position were Henry Kissinger and William Seward. For 10 points, name this cabinet position responsible for handling American foreign policy.

 ANSWER: Secretary of State [prompt on State]
- 11. An evil lumberjack named Jacques Le Sheets is the villain of a game starring a "kamikaze squirrel" of this name for the Sega Genesis. Rem Tokimiya narrates another game named for this number in which Vermillion Peristylium is defended by members of the school of Akademeia, led by Ace; that game named for

this number was made by Hajime Tabata. A shoot'em up whose opening features the villain (*) Katz asking "How are you gentlemen? All your base are belong to us" is named after this number. The full name of the Gravity Gun mentions this number, since it manipulates a certain type of energy. This number also titles a game in which Samurai Goroh, the leader of the bandits in Red Canyon, uses the Fire Stingray. For 10 points, give this number that titles a racing series featuring Captain Falcon.

ANSWER: zero

- 12. In one work, this character is described as "hasped and hooped and hirpling with pain," while another work named after him has chapters themed around zodiac signs. In that work, he makes a list of blessings all beginning with the number 1, and he throws apples at a character who comes to kill him. This character claims that he's "had an accident... So may you all" before possibly jumping off a cliff in a novel where he espouses (*) nihilism; in that retelling, he spares a queen after her husband refuses to protect her, while in another work, Queen Wealtheow rewards a hero for killing him. This protagonist of a John Gardner novel almost ruins Hrothgar by looting Heorot. After his arm is ripped off, his mother comes out to avenge him by fighting the title hero of an Anglo-Saxon epic. For 10 points, name this first antagonist of *Beowulf*. ANSWER: Grendel
- 13. Robert Berger solved the domino problem by translating these things into a Wang tiling. Their "alternating" type switches between "existential" and "universal" states. In an article about the "Problem of Thue," Emil Post used "quadruplets" instead of "quintuplets" to specify these things. C-types of these rely on outside entities to make a choice, like O-types of these structures, which rely on an (*) "oracle." A type of these structures that executes the most possible steps is the "busy beaver." They can be formally defined as a 7-tuple whose transition function outputs a symbol, state, and direction of motion. These structures have an instruction table, a state register, a head that can read and write symbols, and an infinite tape divided into cells. For 10 points, name these devices which can theoretically simulate any computation, named after a British computer scientist. ANSWER: Turing machine [or alternating Turing machine]
- 14. Description acceptable. The last line of one of these works was changed to avoid offending France, and its narrator criticizes his co-workers for not attending plays unless someone "throws free tickets at their head." The preface to another work of this type claims to have received it from a high school friend whose brother, its author, has gone to take up an official post, and ends with the plea "Save the children..." In another of these works, the narrator reads the letters of a (*) dog that is having an affair, while the narrator of another thinks his brother killed his younger sister because he sees the words "Eat people" in every book. In the most famous work of this type, Poprishchin claims he is the King of Spain before being sent to an asylum. For 10 points, name this type of memoir featured in short stories by Lu Xun and Nikolai Gogol.

ANSWER: <u>diary</u> of a <u>madman</u> [or <u>madman</u>'s <u>diary</u>; prompt on incomplete answers such as <u>diary</u> or something made by a madman]

15. A commander of the winning side in this war was nicknamed "Reverse" after defeats like one in which the namesake summit's lack of cover led to an "acre of massacre." The losing side's last use of their Schneider Long Tom cannons was at the last set-piece battle of this war, at Bergendal. Command of the winning side of this war passed from Redvers Buller to Lord Roberts, and then to a man who instituted a policy which was the subject of (*) Emily Hobhouse's activism and the Fawcett Commission. The victors of this war suffered defeats like the Battle of Spion Kop during Black Week while relieving Ladysmith. The victors of this war used concentration camps under Lord Kitchener and annexed the Transvaal Republic and the Orange Free State. For 10 points, name this 1899–1902 war between Britain and two republics of Afrikaans-speaking settlers in South Africa.

ANSWER: Second Anglo-<u>Boer</u> War [or Second <u>Boer</u> War or <u>South African</u> War before "South Africa" is read; do not accept answers of "First Boer War" and equivalents]

16. This author wrote about H., who paints the industrialist S. and has an affair with his secretary, in *Manual of Painting and Calligraphy*. This man wrote about Bartholomew Lorenzo's invention of the Passarola, a flying machine that is flown by the title lovers to escape the Inquisition. In another of his works, a man steals a car from a cripple out of "generosity and altruism" and is later fatally kicked after trying to grope a girl. The "dog of tears" follows one of this author's protagonists, who is suspected of causing 83% of voters to turn

in blank ballots after leading her (*) ward during an epidemic. Characters of this author of *Baltasar and Blimunda* include the ex-prostitute with the dark glasses and the doctor's wife, who is the only character exempt from the title condition. For 10 points, name this Portuguese author of *Blindness*.

ANSWER: José de Sousa Saramago

17. The change in this quantity is equal to the product of the area under the curve and a device-specific constant K in DSC. A diagram in which this quantity appears on the y-axis also shows dryness lines in one section; those diagrams plot this quantity against entropy and are sometimes named for (*) Mollier. This quantity remains constant when a gas expands through a porous plug, an example of a throttling process. The overall change in this quantity is equal to its change at each step according to Hess's law. The change in this quantity minus the temperature times the change in entropy is equal to the change in Gibbs free energy. For 10 points, name this chemical quantity symbolized H.

ANSWER: **enthalpy** [prompt on \underline{H} before mention]

- 18. This leader hosted a massive tea party at the Imperial Palace at which his loyal follower Sen no Rikyu, the greatest master of the Way of Tea, was made a Buddhist master; over unknown disagreements, he later ordered Sen to kill himself. This man subdued the Shimazu clan with a brutal invasion of Kyushu, after which Shimazu Yoshihiro served him loyally, rescuing his generals after the disastrous Battle of Noryang Point. This so-called "little monkey" claimed the construction of a giant Buddha was the ultimate purpose of collecting huge amounts of metal through (*) sword hunts. The seven year long Imjin War was fought to defeat two failed invasions this man ordered of Korea. His son Hideyori never got to succeed him thanks to the Battle of Sekigahara. For 10 points, name this second of the three great unifiers of Japan, who succeeded Oda Nobunaga. ANSWER: Toyotomi Hideyoshi [accept names in either order; prompt on Toyotomi]
- 19. A work by this author claims that our image of happiness is bound up with the image of redemption, and that every generation is thus endowed with a "weak Messianic power." This author used the chess-playing Mechanical Turk as a metaphor for what he viewed as a failed attempt by Marx toward scientific objectivity in an essay that describes a figure who watches "one single catastrophe" while staring into the past, the subject of (*) Klee's Angelus Novus. In his best-known work, he compared the surgeon who penetrates deep into the patient's body to the cinematographer, and labeled Fascism the "aesthetization of politics." For 10 points, name this author of Theses on the Philosophy of History who described how film affected the "aura" of art in The Work of Art in the Age of Mechanical Reproduction.

ANSWER: Walter Benjamin

20. During the 1970s, this country's artists produced so-called "Scar Art," such as a series of violent illustrations based on the book *Maple*. A common theme in paintings from this country shows three old men reacting to the taste of vinegar. This country *originated* a tradition in which retired bureaucrats-turned-amateur landscapists formed the majority of a so-called "Southern School" of painters. Landscapists from this country began the tradition of depicting a region's idyllic scenes in (*) eight views. This country's so-called "Mona Lisa" is a panoramic painting that depicts various urban scenes "along the river" during a springtime festival. It originated the tradition of "literati art" practiced by gentlemen using black ink brushes to create calligraphy. For 10 points, identify this home country of Zhang Zeduan, who worked during the Song Dynasty. ANSWER: China [accept literally any historical incarnation of China; or Zhonguo; or Zhonghua Renmin Gongheguo]

Bonuses:

- 1. A superstition holds that a composer's ninth symphony is destined to be their last. For 10 points each:
- [10] Mahler was so obsessed with beating the "curse of the ninth" that he disguised this ninth symphonic work as a song cycle. This work sets various Tang dynasty poems to music and ends with "The Farewell."

ANSWER: Das <u>Lied von Der Erde</u> [or The <u>Song of the Earth</u>]

[10] This other ninth symphony was likely inspired by African-American spirituals the composer heard during a visit to America. It features a prominent English horn solo at the beginning of its second movement.

ANSWER: <u>New World</u> Symphony [or Symphony No. 9 in E Minor by <u>Dvorak</u> (only composer is required); or Symphony <u>From the New World</u>; or Z <u>nového světa</u>]

[10] Bernstein called this composer's ninth symphony "anti-ninth" for its light-heartedness, likening the violin solo to "Mickey Mouse." Musicologist Solomon Volkov called his ninth symphony an "act of creative insubordination." ANSWER: Dmitri **Shostakovich**

2. One of these places is filled with streams and whirlpools and is guarded by Nasshut. For 10 points each:

[10] Name this type of place exemplified by the Norse Helheim or the Finnish Tuonela, the home of a namesake black swan.

ANSWER: <u>underworld</u> [or <u>hell</u>s; or <u>lands of the dead</u> and equivalents]

[10] Vainamoinen escapes Tuonela by turning into a snake, but this other hero of the Kalevala dies trying to retrieve the black swan for Louhi. This husband of Kyllikki is restored by his mother with a drop of honey.

ANSWER: Lemminkainen

[10] Kyllikki knows of Lemminkainen's death when this golden object of his starts bleeding, alerting his mother to go rescue him.

ANSWER: **hairbrush** [or **comb**; prompt on brush]

3. This book challenges the idea that gender is constructed and sex is scientific, since both are societally constructed. For 10 points each:

[10] Name this 1990 book by Judith Butler about "feminism and the subversion of identity" that calls for a new, positive gender politics through performativity. It was followed by her later book, *Undoing Gender*.

ANSWER: Gender Trouble: Feminism and the Subversion of Identity

[10] This term refers to a "cheesy" or "kitschy" performative aesthetic often associated with drag or flamboyant homosexuality. Susan Sontag wrote some "notes on [this style]."

ANSWER: camp [accept word forms]

[10] This author coined the term "compulsory heterosexuality" in an essay about "lesbian existence." She also wrote about cultural pressures against lesbianism in her "Twenty-One Love Poems."

ANSWER: Adrienne Rich

- 4. This man visited the Great Mosque of Kilwa, which was carved out of coral, and married into the royal family of the Maldives. For 10 points each:
- [10] Name this Muslim traveler who turned his hajj into a super-long trip throughout the Middle East, Africa, Asia, and Europe in the 1300s. He documented his journey in the *Rihla*.

ANSWER: Ibn Battuta

[10] Ibn Battuta got back to Morocco to find that his parents had died and that this disease had swept through the Middle East. It also killed about a third of Europe's population.

ANSWER: Black Death [or bubonic plague]

[10] Ibn Battuta also visited the Swahili coast, which was known as "Bilad al-[this term]" to contemporary Arabs. Slaves known by this Arabic term rose up in a devastating conflict that included the Battle of the Barges.

ANSWER: **Zanj** [or **Zinj**]

- 5. This philosopher claimed that he couldn't know if he was a man who had dreamt of being a butterfly, or vice versa. For 10 points each:
- [10] Name this Chinese philosopher who expressed skeptical ideas in a namesake book. That book contains 33 sections called the "Inner," "Outer," and "Mixed" chapters.

ANSWER: Zhuang Zhou [or Zhuangzi; or Master Zhuang; or Chuang Chou]

[10] Zhuangzi is associated with this school of Chinese philosophy whose name literally means "the way." Its central work is a collection of teachings attributed to Laozi.

ANSWER: **Tao**ism [or **Dao**ism]

[10] This concept in Taoism literally means "so of itself" and translates to "naturally" or "in the course of events." It is the positive counterpart to the negative concept of wu wei, or inaction.

ANSWER: **ziran** [or **tzu-jen**]

6. Addison's disease may result in excessive loss of this ion through urine. For 10 points each:

[10] Name this ion commonly linked with high blood pressure when consumed in excess. Aldosterone controls the levels of this ion in the body, and it is elevated in hypernatremia.

ANSWER: **sodium** [or **Na**]

[10] The thick ascending limb of this structure is responsible for reabsorption of sodium from the urine. Its thin descending limb is not permeable to ions and urea, but is highly permeable to water.

ANSWER: **Loop of Henle** [prompt on kidney or nephron]

[10] These arterioles lie parallel to the Loop of Henle and are responsible for maintaining the ion gradient established in the medulla through countercurrent exchange.

ANSWER: vasa recta

7. This poem opens "Celestial choir! enthron'd in realms of light" before invoking Columbia, a representation of the United States. For 10 points each:

[10] Name this poem that describes Columbia's armies' bloody triumph against Brittania's "pensive head" and tells the titular figure to "Proceed, great chief, with virtue on thy side."

ANSWER: "To His Excellency General Washington" [The title shows up both with and without the "To"]

[10] This poet of "His Excellency General Washington" wrote about her enslavement and her conversion to Christianity in "On being brought from Africa to America"

ANSWER: Phillis Wheatley

[10] Wheatley's *Poems on Various Subjects, Religious and Moral* contains an elegy for this man. It opens, "Hail, happy saint, on thine immortal throne" and calls to "behold the prophet in his tow'ring flight!"

ANSWER: Reverend George Whitefield

8. These stars with luminosity class V are sometimes called yellow dwarfs, but are usually white. For 10 points each:

[10] Name this type of main sequence star, examples of which include Alpha Centauri A and the Sun, which is perceived as yellow because of Rayleigh scattering.

ANSWER: $\underline{\mathbf{G}}$ -type main sequence star [or class $\underline{\mathbf{G}}$ star, or $\underline{\mathbf{G}}$ dwarf star, or $\underline{\mathbf{G}}$ V star]

[10] In about 1.2 billion years, the sun will experience this runaway nuclear reaction in which it generates a large amount of carbon in its core via the triple-alpha process.

ANSWER: helium flash

[10] These basically dead stars are very small, very dense, and filled with their namesake particle. Pulsars are examples of these stars which rotate and emit radiation.

ANSWER: neutron star

9. This prayer is said when there is enough light to see "a familiar acquaintance six feet away." For 10 points each: [10] Name this prayer service carried out in the morning. Either before or during this service, the reciting person praying puts on their *tallit* and wraps *tefillin*.

ANSWER: Shacharit

[10] This prayer is named for the fact that it sanctifies God's name. The most common prayer referred to by this name is said in remembrance of the dead.

ANSWER: Kaddish

[10] The second word of the traditional *Shema* prayer is this word, the name Jacob takes later in life. A kingdom of this name had a southern rival named Judah, both in the Bible and in real life.

ANSWER: **Israel** [or **Yisra'el**]

10. In this novel, the rake Raymon de Ramiere seduces the title character's maid Noun, then her. For 10 points each:

[10] Name this novel in which the title character escapes a loveless marriage to Delmare. She is caught in the July Revolution of 1830 after a letter from Raymon brings her to Paris, but is rescued by her cousin Ralph.

ANSWER: Indiana

[10] The novels *Indiana* and *Consuelo* were written by this French author. She described her affair with Frederic Chopin in *A Winter in Majorca*.

ANSWER: George **Sand** [or Amantine-Lucile-Aurore **Dupin**]

[10] The narrator's grandmother gives his mother a group of novels by George Sand in this Marcel Proust doorstopper, which begins with the section "Swann's Way."

ANSWER: <u>In Search of Lost Time</u> [or <u>Remembrance of Things Past</u> or <u>À la recherche du temps perdu</u>]

- 11. This group led a namesake 1908 revolt against Sultan Abdul Hamid II that started the Second Constitutional Era. For 10 points each:
- [10] Name this group that originated from the Committee of Union and Progress. Under the Three Pashas, it led the Ottoman Empire into the First World War.

ANSWER: **Young Turk**s [or **Jön Türkler**]

[10] This Young Turk and First World War hero tried to remove the fez and religious garments from public life with the Hat Law of 1925. He outlined his ideology in the Six Arrows and is seen as the founder of modern Turkey.

ANSWER: Mustafa Kemal Ataturk [accept either underlined]

[10] Ataturk was a rival of this most powerful of the Three Pashas, who was War Minister during the First World War. He persuaded Talaat Pasha and Djemal Pasha to begin the Armenian Genocide.

ANSWER: Ismail **Enver** Pasha

- 12. The centripetal form of this quantity in curved motion points towards the center of curvature and normal to the object's path of motion. For 10 points each:
- [10] A satellite orbiting Earth experiences the centripetal form of this quantity, the second derivative of position with respect to time.

ANSWER: acceleration

[10] This instrument was the standard for the measurement of local gravitational acceleration during the 1800s. It consisted of a rigid metal bar suspended from one of its two pivot points.

ANSWER: Kater's pendulum

[10] This device contains two masses connected by a massless string and frictionless pulley. A swinging variety of this device can exhibit chaos.

ANSWER: **Atwood machine**

- 13. The ship class designation created by adding an "X" to the end of the name of this waterway names a 2014 board game. For 10 points each:
- [10] Name this important waterway currently managed by a subsidiary of the Hong Kong-based company Hutchison-Whampoa. It connects ships between Balboa on the Pacific and the Colon on the Caribbean Sea.

ANSWER: **Panama** Canal [or **Panama**x]

[10] This London-based, coincident index tracks the cost of shipping resources overseas. It is named for an area of Europe where Britain bought a lot of naval stores.

ANSWER: **Baltic Dry** Index [or **B**A**DI**]

[10] The port of this city is the largest cargo port in Europe based on the number of twenty-foot equivalent units processed, surpassing both Antwerp and Frankfurt.

ANSWER: Rotterdam, Netherlands

- 14. Unusually for the time, this painting has its horizon line at the top of the painting, and its broad swathes of color show Japanese influence. For 10 points each:
- [10] Name this painting which shows a woman in white awkwardly holding a baby in pink, while a man in black faces away from the viewer while rowing.

ANSWER: The Boating Party

[10] *The Boating Party* was painted by this female, American-born Impressionist, known for her many depictions of mothers and children such as *The Child's Bath*.

ANSWER: Mary Cassatt

[10] Cassatt introduced the young American artist Lucy Bacon to this Danish-born Impressionist, who became her teacher. This "father" of the Impressionists painted several versions of the Boulevard Montmartre in Paris.

ANSWER: Camille **Pissarro**

15. Only one of this author's plays survives almost entirely, but fragmented ones include "The Shield" and "Girl from Samos." For 10 points each:

[10] Name this Greek playwright of New Comedy, who wrote about a grumpy old man in *Dyskolos*.

ANSWER: Menander

[10] In *Dyskolos*, this man, the stepson of the miser Knemon, helps Sostratos to win the hand in marriage of Knemon's daughter. He later saves Knemon from falling down his own well.

ANSWER: Gorgias

[10] Another grumpy old man in Greek comedy is Philocleon, who is addicted to going to court despite his son Anticleon's attempts to stop him, in this play by Aristophanes.

ANSWER: The Wasps [or Sphēkes]

16. Microvoids initiate crack formation during this process, which is contrasted with brittle fracture. For 10 points each:

[10] Name this type of fracture, in which plastic deformation and necking occur before increasing tensile stress breaks a material. This term describes a metal's ability to be stretched into wire.

ANSWER: **ductile** fracture[accept word forms]

[10] When this phenomenon occurs, a material experiences plastic deformation under constant stress. A graph of this phenomenon shows more rapidly increasing strain over time.

ANSWER: creep

[10] This type of deformation is contrasted with plastic deformation. In it, a material placed under load is still able to return to its original shape. This type of deformation occurs in the linear region of a stress-strain graph.

ANSWER: **elastic** deformation

17. A somber matchbook collector in this novel marries another matchbook collector's widow. For 10 points each:

[10] Name this novel in which a rather dull Canadian struggles through classes with a priest before he gets married. Another character in this work leaves Germany to join the French Foreign Legion, but later hangs himself in a concentration camp.

ANSWER: Brideshead Revisited, The Sacred & Profane Memories of Captain Charles Ryder

[10] *Brideshead Revisited* is by this British Catholic, who wrote about the theology student Paul Pennyfeather in *Decline and Fall*.

ANSWER: Evelyn **Waugh** [or Arthur Evelyn St. John **Waugh**]

[10] After the Bollinger Club pranks him into running through it pantsless, Pennyfeather is kicked out of this school. Charles Ryder meets Sebastian Flyte at this school in *Brideshead Revisited*.

ANSWER: the University of Oxford

18. One strike in this industry was nicknamed "bread and roses" after a speech given by Rose Schneiderman. For 10 points each:

[10] Name this industry that involves the production of yarn and cloth. Sam Slater designed the first mills used for this industry in America.

ANSWER: **textile** industry [or **fabric** industry; or **cloth** before it is read]

[10] This editor of *The Cry for Justice* became the first person to associate the phrase "bread and roses" with the Lawrence textile strike. This man also ran for governor of California on a platform called EPIC.

ANSWER: Upton **Sinclair** [or Upton Beall **Sinclair** Jr.]

[10] This city served as the centre of cotton weaving in the North; the textile mill in this city notably faced a strike by its "Mill Girls" in 1936.

ANSWER: Lowell, Massachusetts

19. In one ballet by this man, Swanhilda shakes wheat by her ear and realizes that Franz no longer loves her when she does not hear it rattle. For 10 points each:

[10] Name this composer, who framed the Sandman story as the ballet *Coppelia*. He also wrote an opera featuring the Bell Song and the Flower Duet, *Lakme*.

ANSWER: Leo **Delibes**

[10] This other ballet by Delibes takes a classical theme. In it, the title character is a nymph who is captured by Orion but falls in love with Aminta.

ANSWER: Sylvia

[10] Delibes' opera *Lakme* is set in this country. Actual dance styles from this country include Kathak, Sattriya, and Chhau, and its characteristic *mudras*, or hand gestures, are used to communicate through dance.

ANSWER: India

20. The losers of this battle ignored the omen of a silver cross falling while the fleet was being blessed. For 10 points each:

[10] Name this 1284 naval battle in which Pisa suffered a huge defeat from which it never recovered. Count Ugolino della Gherardesca was forced to retreat from this battle.

ANSWER: Battle of Meloria

[10] Pisa's defeat at Meloria was to this other Italian city-state. This hometown of Christopher Columbus waged the War of Saint Sabas and the War of the Chioggia against Venice.

ANSWER: Republic of Genoa

[10] Despite all this fighting, the Italian city-states were actually held together in this alliance against Frederick Barbarossa's attempt at controlling northern Italy. This group signed the Treaty of Legnano.

ANSWER: **Lombard** League