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Tossups

- 1. A philandering king belonging to this royal house was married to the Polish Marie Leszczynska, who was the longest-serving queen of her country. This dynasty allied with Sweden's Vasa Dynasty in the Treaty of Barwalde. A member of this dynasty kept Madame de Pompadour as his mistress, who tellingly stated "After us, the deluge." The founding member of this dynasty said "Paris is well worth a mass" after coming to power and ending the French Wars of Religion. This house was restored to power from 1815 to 1830, following Napoleon's defeat at the Battle of Waterloo. For 10 points, name this French royal house founded by Henry IV, the last French dynasty. ANSWER: House of **Bourbon**
- 2. A racist in this novel cites Goddard's book *The Rise of the Colored Empires* to argue that white "Nordics" have created "all the things that go to make civilization." Its narrator describes a rich couple as "careless people" who "smashed up things and creatures" and "let other people clean up the mess they had made." Near the end of this novel, the title character's gold car runs over Myrtle Wilson, causing the title character to be murdered by Myrtle's husband George. Its final page compares the discovery of America to the title character's pursuit of the "green light," which symbolizes his dream of Daisy Buchanan. For 10 points, name this novel by F. Scott Fitzgerald. ANSWER: *The Great Gatsby*
- 3. The "brown" type of this mineral is used as an abrasive and produced by melting and then reducing bauxite. This mineral can be artificially created by crystallizing droplets of this substance into a boule in a flame-fusion process invented by Auguste Verneuil. A pink-orange type of this mineral is known as padparadscha (POD-par-ODD-shuh). This mineral is found as the dominant component alongside iron oxides in the rock emery. Although the pure form of this mineral is transparent, the presence of chromium in it can give it a deep red tint. This mineral, which is made of aluminum oxide, has a Mohs hardness of 9. For 10 points, name this mineral that is found in sapphires and rubies. ANSWER: **corundum** [prompt on <u>alumina</u> or <u>Al2O3</u>; prompt on <u>aluminum oxide</u> until read; prompt on <u>rubies</u> or <u>sapphires</u> until read]
- 4. In one opera, the title character performs this action while singing the aria "Ah! Non credea mirarti" (ah non cre-DAY-uh meer-AR-tee) and walking across a bridge into Elvino's arms. In a ballet partly titled for this action, townspeople dance the *Garland Waltz* to welcome a princess, who then dances the *Rose Adagio* with four suitors. In that ballet named for this action, the evil fairy Carabosse places a curse that the Lilac Fairy counteracts so that a princess will perform this action instead of dying after she pricks her finger on a spinning wheel. For 10 points, name this action that Aurora does for a hundred years as the title "Beauty" of a ballet by Pyotr Ilyich Tchaikovsky. ANSWER: sleeping [or sleepwalking]
- 5. In one of this thinker's works, one character considers the creation myth of a planet inhabited by spiders to critique the argument from design. This man classified all objects of inquiry into two categories exemplified by the Pythagorean theorem and the statement "the sun will rise tomorrow." This thinker described how all ideas are derived from impressions in his "copy principle." This man divided all knowledge into relations of ideas and matters of fact. This author of *Dialogues Concerning Natural Religion* formulated the is-ought problem. For 10 points, name this Scottish empiricist who wrote *A Treatise of Human Nature* and *An Enquiry Concerning Human Understanding*. ANSWER: David **Hume**
- 6. A character in this novel gives a biscuit to a dying man who has a bit of white worsted tied around his neck. The true narrator of this novel sees a "brooding gloom" over "the greatest town on Earth." The protagonist of this novel discovers a painting of a blindfolded woman holding a torch against a dark background. That same character later throws his shoes overboard along with his dead helmsman, upsetting the starving cannibals he had hired to help transport the Manager upriver. A mission in this novel seeks to find a man whose last words are "the horror, the horror." For 10 points, name this novel in which Marlow travels up the Congo to meet Kurtz, by Joseph Conrad. ANSWER: *Heart of Darkness*

7. Pope Paul VI wrote the *Paenitemini* (PAH-ay-nee-tay-mee-nee) to explain that this practice is not required in "countries where the standard of living is lower." This practice is forbidden during the Bright Week, which follows Easter. A two-week period of this activity precedes the Feast of the Dormition, and some people practice the "Nativity" form of this practice during Advent. This custom is often practiced starting on Ash Wednesday, throughout the time of Lent, to mirror the 40 days that Jesus spent doing this action in the desert. For 10 points, name this practice that involves abstaining from eating food.

ANSWER: fasting [or not eating or equivalents; prompt on abstinence; prompt on asceticism]

8. The relativistic kinetic energy of a photon equals this quantity times the speed of light. Applying a Fourier transform on wavefunctions in position space gives the eigenfunctions of the operator named for this quantity. Dropping a Galilean cannon, a stack of balls with a large ball at the bottom and a small ball on top, demonstrates this quantity's conservation. There is a limit to how accurately this property and position can be measured, according to Heisenberg's uncertainty principle. Newton's second law equates the time derivative of this quantity to force, so it is always conserved in the absence of external forces. For 10 points, name this quantity defined as mass times velocity.

ANSWER: linear momentum [do not accept or prompt on "angular momentum"; prompt on p]

9. A 1995 popular referendum in this sub-national region was defeated because of "money and the ethnic vote," according to a leader of its independence movement. This region was the home of the most heated resistance during its country's 1917 conscription crisis. This province was wooed into accepting a change in the 1982 constitution by the Meech Lake Accord. A period of great social change in this region in the 1960s was called the Quiet Revolution. A group advocating for this province's independence kidnapped James Cross and Pierre Laporte in October 1970, leading limitations placed on civil liberties by Pierre Trudeau. For 10 points, name this French-speaking Canadian province.

ANSWER: Quebec

10. In one work by this artist, three heads of various ages each face a different direction above the heads of a lion, wolf, and a dog. A large red banner adorned with the Papal arms appears in another work by this artist, in which Francis of Assisi stands above five kneeling members of the Pesaro family. This artist of the *Allegory of Prudence* painted an eight-star constellation ring at the top left corner of a painting showing a figure in a pink cape leaping out of a cheetah-drawn chariot. His most famous work sees a maid rummaging in a background chest behind a nude, reclining woman that stares at the viewer. For 10 points, name this painter of *Bacchus and Ariadne* and *Venus of Urbino*

ANSWER: <u>Titian</u> [or <u>Tizian</u>o; or Tiziano <u>Vecelli</u>; or Tiziano <u>Vecello</u>]

11. Carbon dioxide undergoes this type of reaction in the Sabatier process. Another type of this reaction uses borane and the CBS catalyst in a reaction named for Corey and Itsuno. One type of this reaction uses hydrochloric acid and zinc amalgam on carbonyls, and another type uses sodium dissolved in liquid ammonia and produces 1,4-cyclohexadienes from benzene. Sodium borohydride is used for this type of reaction, types of which are named for Clemmensen and Birch. In an electrochemical cell, this reaction occurs at the cathode. For 10 points, name this type of reaction which involves a gain of electrons and is contrasted with oxidation.

ANSWER: <u>reduction</u>s [prompt on <u>redox</u> reactions or <u>reduction-oxidations</u>]

12. This author depicted a dictator named Kamini, who tries to solve a financial crisis by printing more money, in *A Play of Giants*. In a novel, this man wrote on how studying abroad affected men like the artist Kola and a foreign ministry clerk called Egbo. In a play by this author, Amusa reacts in horror when he sees a British couple dancing while wearing egungun masks. This author depicted his country after independence in *The Interpreters*. In a play by this author, Simon Pilkings prevents Elesin from committing ritual suicide, even though the title position requires him to do so in Yoruba culture. For 10 points, name this Nigerian playwright of *Death and the King's Horseman*. ANSWER: Wole **Soyinka**

13. This president aided rebels fighting against Jose Santos Zelaya's government, before beginning the twenty-year long occupation of Nicaragua. Before becoming president, he served as the first Governor-General of the Philippines. During this president's term, the Payne-Aldrich tariff increased taxes on imported goods. This president's Secretary of State Philander Knox furthered American interests abroad with the policy of "dollar diplomacy." This president, who became Chief Justice in 1921, finished in third place behind the Bull Moose Party and Woodrow Wilson in the Election of 1912. For 10 points, name this overweight president who succeeded Theodore Roosevelt.

ANSWER: William Howard Taft

- 14. Mary Cover Jones, a member of this school of psychology, conducted the Peter experiment and concluded that "desensitization" is an effective way to treat phobias. An application of mathematics to this school of psychology was developed by Clark Hull. Another member of this school of psychology shortened the distance that a rat had to run to find food, causing it to run into a wall. Thorndike's law of effect influenced the founder of one branch of this school who performed operant conditioning in his namesake "box." For 10 points, identify this school of psychology identified with John B. Watson and B.F. Skinner that uses positive and negative rewards to reinforce desired actions. ANSWER: **behaviorism** [or radical **behaviorism**; or word forms]
- 15. In this city, a clock with the times of 148 major cities around the globe is topped by a sculpture of an atom and is known as the Urania World Clock. A major boulevard in this city is named after a June 17, 1953, workers' uprising, and is continued by an avenue whose name translates as "Under the Lindens" after it passes through the Tiergarten. Checkpoint Charlie was a heavily-guarded crossing point between the American and Soviet occupation sectors in this city, whose Brandenburg Gate lay between its very-separated west and east portions. For 10 points, name this city that used to be divided by a wall during the Cold War, the capital of Germany.

 ANSWER: Berlin
- 16. The first and last stanzas of Philip Larkin's poem "Annus Mirabilis" mention this novel before "The Beatles' first LP." This novel's main character is incensed after the failure of a motorised wheelchair forces its occupant to be pushed up a hill. Its protagonist rejects a proposal from the Irish playwright Michaelis and embarks on a passionate affair with the husband of Bertha Coutts. The explicit descriptions of that affair caused this novel's publisher, Penguin, to be sued in a landmark 1960 obscenity trial. For 10 points, name this novel whose title character, Constance, has an affair with the gamekeeper Oliver Mellors, written by D.H. Lawrence.

ANSWER: Lady Chatterley's Lover

17. "Bitter enders" seeking to re-establish the Transvaal Republic took advantage of the start of this conflict to revolt in the Five Shillings Rebellion. Frederick Selous of Rhodesia was killed by a sniper at the Rufiji River during this war's East African campaign. An Anglo-French expedition captured and partitioned the colony of Togoland in the early days of this war. As a result of this war, colonies roughly corresponding to the present-day countries of Cameroon, Tanzania, and Namibia were given out as League of Nations mandates. The invasion of German South-West Africa was part of—for 10 points—what larger global conflict which pitted the Entente Powers against the Central Powers?

ANSWER: <u>World War I</u> [or <u>WWI</u>; or the <u>Great War</u>; ask for less specificity for answers like the <u>invasion</u> of <u>German South-West Africa</u> or the <u>invasion</u> of <u>German East Africa</u>]

18. Some cells in this structure can become hyperpolarized when the activation of the G-protein transducin triggers phospho-di-ester-ase to cleave cGMP. This structure contains amacrine cells in its inner plexiform layer, and many of its cells are supported by Müller glia. A compound named for this structure can photo-isomerize from the 11-cis state to an all-trans state. Bipolar cells in this structure transmit signals to ganglion cells. This structure lies right on top of the choroid and the sclera, and this structure's macula lutea contains the fovea at its center. For 10 points, name this structure made of rod and cone cells, onto which the lens of the eye focuses light.

ANSWER: retina [prompt on rod cells or cone cells before mentioned; prompt on eye]

19. This god was often depicted carrying a yellow and black fan and wearing a cross-section of a conch shell called the "wind jewel." After being banished from the city of Tula, he was burned on a pyre and his heart became the planet Venus. In one instance, this god, who retrieved bones from the underworld to create humanity, got drunk on the alcoholic pulque ["pool-kay"] and slept with his sister. This god is commonly described as being fair skinned and bearded, and he sailed off into the East on a raft made of snakes. This god frequently fought with his brother Tezcatlipoca. For 10 points, name this "feathered serpent" god of Aztec Mythology.

ANSWER: Quetzalcoatl

20. In 1952, Yehudi Menuhin resurrected this non-Schumann composer's early D minor violin concerto. This composer instructs the bassoon to hold a B to link the first two movements of another concerto. The soloist enters after just two bars of orchestral introduction with a theme that gave this composer "no peace" in that concerto in E minor. A "Spinner's Song" appears alongside three separate Venetian boat songs in this composer's collection *Songs without Words.* For 10 points, name this German Romantic composer of incidental music to *A Midsummer Night's Dream*, which includes his famous "Wedding March."

ANSWER: Felix **Mendelssohn** Bartholdy

Tiebreaker. Members of this religion commonly greet their friends with the phrase "Micchama Dukkadam" (mich-CHAA-mi DUK-a-dum) on the day of Kshamavani (ksha-MAA-vaa-ni), known as "forgiveness day." That day is the end of this religion's holiday Paryushana (PAR-yu-SHA-na). Members of this religion can undergo Sallekhana (SAL-le-KA-na), or starving to death. This religion is split into the Svetambara and Digambara sects, which respectively consist of white-clad and sky-clad monastics. Many followers of this religion do not eat root vegetables, onions, or garlic. For 10 points, name this Indian religion, led by Mahavira, that emphasizes ahimsa, or nonviolence. ANSWER: Jainism [or Jains; or Jain Dharma; anti-prompt on Svetambara Jainism or Digambara Jainism before mentioned]

Bonuses

- 1. Recurrent stories in this novel include an exterminator whose family hates him and an aspirin salesman who runs over a child with his car. For 10 points each:
- [10] Name this 1977 semi-autobiographical novel in which an eighteen-year-old version of the author works at a radio station and falls in love with the title divorcee.

ANSWER: <u>Aunt Julia and the Scriptwriter</u> [or La tía Julia y el escribidor]

[10] Every other chapter in *Aunt Julia and the Scriptwriter* is one of these things, supposedly written by the eccentric Brazilian Pedro Camacho. Dylan Thomas's *Under Milk Wood* is in this genre.

ANSWER: **radio plays** [or **radionovelas**; prompt on partial answer]

[10] One of Pedro Camacho's radio plays is about the son of a wealthy family who is good at nothing but refereeing this sport. Eduardo Galeano wrote about the history of this sport in Latin America and Europe.

ANSWER: soccer [or football]

- 2. In one story, this character captures the python Onini by tricking him into letting himself be tied to a tree branch. For 10 points each:
- [10] Name this trickster figure who receives all the stories of the world after capturing three creatures for Nyame.

ANSWER: Anansi

[10] Anansi often takes the form of one of these animals, which he uses to ensuare the leopard Osebo in a web.

ANSWER: spider

[10] Anansi tricks these creatures into thinking that it is raining and seals them inside a calabash. The pastoral god Aristaeus introduced the art of raising and rearing these flying creatures.

ANSWER: **bee**s [or **wasp**s or **hornet**s; or **bee**-keeping]

- 3. These systems can scatter light in the Tyndall effect. For 10 points each:
- [10] Name these systems, which consist of microscopic insoluble particles suspended throughout a medium. Examples of these systems include paint, ink, and emulsions such as mayonnaise.

ANSWER: colloids

[10] The colloidal particles must be stabilized to prevent this process from occurring, where the particles clump together. DLVO theory predicts that this process becomes easier with increasing salt concentration.

ANSWER: flocculation [or coagulation; or aggregation; or agglomeration]

[10] Surfactant molecules dispersed in a colloid can aggregate to form these structures above the Krafft temperature. Spontaneous interfacial curvature determines whether these structures are spherical or bilayered.

ANSWER: micelles

- 4. Elizabeth Siddal contracted a severe cold whilst sitting in a bath to model for this man's painting of *Ophelia*. For 10 points each:
- [10] Name this English artist who portrayed a young Jesus having injured himself in a carpentry workshop in his painting *Christ in the House of his Parents*.

ANSWER: John Everett Millais

[10] Millais, along with William Holman Hunt and Dante Gabriel Rossetti, was part of a "brotherhood" which believed that this artist of *The School of Athens* had corrupted the teaching of art.

ANSWER: Raphael Sanzio da Urbino

[10] Millais married Effie Gray, who was previously married to this Victorian art critic, the author of *Modern Painters*. He criticized Whistler's *Nocturne in Black and Gold* for "flinging a pot of paint in the public's face."

ANSWER: John Ruskin

- 5. This leader was an important member of the Free Officers Movement. For 10 points each:
- [10] Name this longtime president of Egypt, who overthrew the monarchy and lost the Six-Day War.

ANSWER: Gamal Abdel Nasser

[10] Nasser lost the Six-Day War against this country, which gained the Sinai Peninsula, the West Bank, and the Golan Heights after the war. Egypt signed the Camp David Accords with this country.

ANSWER: Israel

[10] Nasser's pan-Arab ideology led to the creation of this short-lived union with Syria, which only lasted from 1958 to 1961.

ANSWER: **United Arab Republic** [or **UAR**]

- 6. A 2016 study found a compressive fracture in the upper right arm of this specimen. For 10 points each:
- [10] Name this hominid specimen discovered in 1974, which is one of the most complete sets of human ancestor remains. This specimen takes its name from a Beatles song.

ANSWER: Lucy

[10] Lucy belonged to this species of early humans. This species pre-dates the *homo* genus of modern humans and is divided into two groups: *afarensis* in East Africa and *africanus* in South Africa.

ANSWER: <u>Australopithecus</u> [or <u>Australopithecus afarensis</u>; or <u>Australopithecus africanus</u>]

[10] Australopithecus were not able to use these objects, and the ability to do so was not developed by human ancestors until homo habilis. Mary and Louis Leakey discovered examples of these objects at Olduvai Gorge.

ANSWER: **stone tools** [prompt on tools]

- 7. According to Haitz's law, every ten years the amount of light generated by these devices increases by a factor of 20 and the cost per lumen falls by a factor of 10. For 10 points each:
- [10] Name these devices, which use a p-n junction to induce electroluminescence.

ANSWER: LEDs [or light-emitting diodes]

[10] The 2014 Nobel Prize in Physics was awarded for developing LEDs of this color. That discovery paved the way for discs named for this color and "ray," which have superseded DVDs for video storage.

ANSWER: **blue** [or **Blu-Ray** discs]

[10] The first blue LED used a compound of this element and nitrogen. This element's arsenide is commonly used in place of silicon as a semiconductor.

ANSWER: gallium [or Ga]

- 8. Enrico Caruso's recording of this aria was the first record to sell over a million copies. For 10 points each:
- [10] Name this aria in which Canio laments that he must pretend to be happy despite his wife Nedda's infidelity. Canio sings this aria as he dons his costume.

ANSWER: "Vesti la giubba" (JOO-bah)

[10] "Vesti la giubba" closes out the first of two acts of this *verismo* opera about a troupe of clowns by Ruggiero Leoncavallo (roo-ZHAIR-oh leon-ca-VA-low). Opera companies often perform this opera alongside Pietro Mascagni's (moss-CAH-nyee's) *Cavelleria Rusticana* (ca-va-LAIR-ia roos-ti-CAH-na).

ANSWER: I Pagliacci

[10] In this other *verismo* opera by Giacomo Puccini, Baron Scarpia executes Cavaradossi despite his promise to the title character, who throws herself off a tower to her death.

ANSWER Tosca

- 9. The narrator of this tale notes that King Solomon had many wives, so it should be acceptable for her to have had five husbands. For 10 points each:
- [10] Name this tale, which describes a knight who seeks to learn what women desire the most and then is forced into marrying a hag who transforms into a beautiful maiden.

ANSWER: Wife of Bath's Tale

[10] The Wife of Bath's Tale is part of this medieval English author's *Canterbury Tales*.

ANSWER: Geoffrey Chaucer

[10] A competition to win a free supper is proposed in this other section of *The Canterbury Tales*, which describes a trip to the shrine of St Thomas Becket.

ANSWER: the General **Prologue** [or anything indicating that it's the frame story or the beginning]

- 10. Ada of Caria, a ruler of this city, formally adopted Alexander the Great as her son after she surrendered it to him. For 10 points each:
- [10] Name this city, home to a famous mausoleum which was one of the Seven Wonders of the Ancient World.

ANSWER: <u>Halicarnassus</u> [or Mausoleum of <u>Halicarnassus</u>]

[10] Perhaps the most famous native of Halicarnassus was Herodotus, who was known as "the father of" this profession. Herodotus influenced later members of this profession such as Thucydides and Xenophon.

ANSWER: <u>historian</u> [accept "<u>history</u>"; accept any answer indicating a person who studies <u>history</u>; prompt on writer]

[10] Herodotus wrote about Artemisia of Halicarnassus, who fought on the side of the Persians in this 480 BC decisive victory for Themistocles.

ANSWER: Battle of Salamis

- 11. Robert Schumann once exclaimed "Hats off, gentlemen! A genius!" after hearing this composer's Variations on "Là ci darem la mano." For 10 points each:
- [10] Name this composer of the *Raindrop Prelude*, a Polish piano virtuoso.

ANSWER: Frédéric Chopin

[10] Chopin was inspired to write this short piano piece after witnessing a dog chasing its tail. This piece's publisher gave it a commonly-used nickname meant to reflect the piece's proportions rather than duration.

ANSWER: <u>Minute Waltz</u> [or <u>Waltz</u> in D-flat major <u>Opus 64, No. 1</u>; prompt on <u>Waltz of the Little Dog</u> or <u>Valse du petit chien</u> or "<u>Waltz</u> in <u>D-flat major</u>" or "<u>Waltz</u> in <u>D-flat major</u>"

[10] Chopin used this key, the enharmonic minor of the *Minute Waltz's* key, for his second Opus 64 waltz and his *Fantaisie Impromptu*. Rachmaninoff's most frequently performed prelude is in this key.

ANSWER: C-sharp minor [do not accept "C-sharp major"]

- 12. The Weierstrass function possesses this property throughout its entire domain. For 10 points each:
- [10] Name this property, which for a function on the real numbers, can be defined as the fact that for any point c, the limit as x approaches c of f(x) equals f(c). Functions with this property have no jumps.

ANSWER: **continuity** [or **continuous**]

[10] The Weierstrass function, although continuous everywhere, does not possess this property anywhere. Complex-valued functions that possess the "complex" type of this property are called holomorphic.

ANSWER: <u>differentiability</u> [or <u>differentiable</u>; or being <u>able</u> to take a <u>derivative</u> or word forms]

[10] By Rolle's theorem, a continuous and differentiable function that has equal values at two different points must have a point in between where the slope equals this number. Inflection points' second derivatives equal this value. ANSWER: zero

- 13. In a novel by this man, a boy named Tom Canty learns to read from a priest and he is later repeatedly asked about the missing "Great Seal." For 10 points each:
- [10] Name this author of *The Prince and the Pauper* and *The Adventures of Tom Sawyer*.

ANSWER: Mark **Twain** [or Samuel Langhorne **Clemens**]

[10] Twain never finished this novel about a supernatural figure that different editions call "No. 44" or "Satan," who visits Theodor Fischer in Esseldorf and magically transports him around the universe.

ANSWER: The Mysterious Stranger

[10] In this Twain short story, the narrator is told of the tale of Jim Smiley, who captures and trains an animal named Dan'l Webster over the course of three months.

ANSWER: The <u>Celebrated Jumping Frog</u> of Calaveras County

- 14. One character in this movie removed the E from his H-A-T-E tattoo to better his job prospects. For 10 points each:
- [10] Name this 2017 movie. The title character of this movie, played by Ansel Elgort, constantly listens to music to drown out his tinnitus.

ANSWER: **Baby Driver**

[10] This actor plays Buddy, another member of Baby's heist crew, in *Baby Driver*. He is better known for a role in which he plays the creative director of Sterling Cooper Partners, Don Draper in *Mad Men*.

ANSWER: Jon Hamm

[10] This English director of *Baby Driver* collaborated with Simon Pegg and Nick Frost on the Cornetto trilogy of *World's End, Hot Fuzz,* and *Shaun of the Dead.*

ANSWER: Edgar Wright

15. For 10 points each, name some things about Napoleonic puppet states.

[10] A state named after this city was ruled by the flamboyant dandy Joachim Murat. This city was previously the center of the Parthenopean Republic, which was opposed by its lazzaroni lower class.

ANSWER: <u>Naples</u> [or <u>Napoli</u>; or Kingdom of <u>Naples</u>; accept Regno di <u>Napoli</u>]

[10] After the Battle of Austerlitz, remnants of the Holy Roman Empire were formed into a confederation named after this river, which forms the modern boundary between France and Germany.

ANSWER: **Rhine** River [or Confederation of the **Rhine**]

[10] Napoleon put his brother Joseph on the throne of this country after forcing the abdication of its king Charles IV. The Pyrenees separate France from this country, which fought the Peninsular War against French occupation.

ANSWER: **Spain** [or **España**]

- 16. This man described that one cannot deny consciousness of the soul in his "floating man" argument. For 10 points each:
- [10] Name this thinker who wrote the *Book of Healing*. His enormously influential *The Canon of Medicine* was based on the ideas of Galen.

ANSWER: Avicenna [or Ibn Sina; or Abu Ali Sina]

[10] Avicenna was a member of this religion. The "Golden Age" of this religion, a flourishing of science, philosophy, and culture, was nourished by the House of Wisdom, a library built in Baghdad.

ANSWER: Islam

[10] The Islamic philosopher al-Ghazali championed occasionalism, which states that God, not objects, have this role in the world. Aristotle distinguished between the material, formal, efficient, and final types of this concept. ANSWER: **cause** [or **cause**r or other word forms]

17. On this holiday, the youngest child is responsible for singing the Four Questions. For 10 points each:

[10] Name this holiday that begins with a Seder and celebrates the Jews' exodus from Egypt.

ANSWER: Passover [or Pesach]

[10] This action, often accompanied by the prayer netilat yadayim (ne-til-AT YA-da-yeem), is performed during the Passover Seder. Performing this action requires a special two-handled cup.

ANSWER: ritual washing [or handwashing; or washing hands or equivalents]

[10] At the end of the Seder, children search for a hidden piece of this thing called the afikoman. When the preparation of this thing is specially supervised, it is known as "Shmurah."

ANSWER: matzo [or matzah; prompt on bread]

18. A character in this novel writes a 72 page tract on cider. For 10 points each:

[10] Name this novel in which the title character pretends to attend her piano lessons so that she may actually carry on an affair with Léon.

ANSWER: Madame Bovary

[10] This author of Sentimental Education wrote Madame Bovary.

ANSWER: Gustave Flaubert

[10] In *Madame Bovary*, Rodolphe breaks up with Emma by placing a letter in a basket of these fruits, which her husband Charles later eats.

ANSWER: apricots

19. This effect occurred in the North Atlantic due to the Eyjafjallajökull (ey-YA-fa-la-YO-kul) volcano in Iceland, and it is usually caused by excess levels of nitrates and phosphates in the water. For 10 points each:

[10] Name this phenomenon, in which a sharp increase in photosynthetic organisms in a marine system can lead to large-scale fish and plant death.

ANSWER: harmful <u>algal bloom</u>s [or harmful <u>phytoplankton bloom</u>s; accept <u>algae bloom</u>s; prompt on <u>eutrophication</u>]

[10] Algal blooms can be harmful because the decay of algae reduces levels of this gas that is dissolved in the water. As a result, fish are no longer able to take in this gas through their gills.

ANSWER: oxygen gas [or O2]

[10] An especially harmful form of algal blooms is red tide, which is caused by these protists. These photosynthetic eukaryotes have a modified nucleus with no histones and were once called "fire algae" due to their bioluminescence.

ANSWER: dinoflagellates

20. Answer some questions about violent and deadly events in Chicago, for 10 points each:

[10] An event of this type devastated Chicago in 1871 and was apocryphally caused by Catherine O'Leary's cow kicking over a lantern.

ANSWER: Great Fire of Chicago

[10] Seven members of Bugs Moran's North Side Gang were gunned down in this 1929 event by mobsters belonging to Al Capone's notorious Chicago Outfit.

ANSWER: Saint Valentine's Day Massacre

[10] The Chicago Seven were arrested in the aftermath of this event. Richard Daley ordered the Chicago police to suppress rioters during this event, which was accused of being "Gestapo tactics in the streets of Chicago."

ANSWER: 1968 Democratic National Convention [or 1968 DNC; prompt on partial answer]