

Spring Novice (April 17th, 2021)

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Packet 4

1. Immigrants from this country staged a prison riot in Atlanta in 1987 after being told they would be deported. Seven years earlier, those immigrants were brought to the United States as part of the Mariel Boatlift. Operation Mongoose was a CIA program to (*) assassinate a leader of this country using such items as a contaminated wet suit and poisoned cigar. The US government covertly funded a failed landing operation against this country in the Bay of Pigs invasion. For 10 points, name this country that was under a United States trade embargo throughout the tenure of its leader Fidel Castro.

ANSWER: Republic of Cuba

<JD, History - American History>

2. George Santayana defined this concept as “objectified pleasure” in his book on “A Sense of” this concept. William Hogarth wrote “An Analysis of [this concept]” that identified a specific S-curve that represents this concept. Immanuel Kant proposed that a person must make themselves completely disinterested in order to make (*) judgments about this concept. Edmund Burke contrasted this concept with the sublime. In a line that critics have interpreted as upholding art over nature, John Keats’s “Ode on A Grecian Urn” equates this concept with truth. For 10 points, name this concept whose subjective interpretation holds that it is “in the eye of the beholder.”

ANSWER: beauty

<Ryan, Beliefs - Philosophy>

3. Obsidian Cliff in this national park is the most widely dispersed source of obsidian in the United States. Brian Kalt discovered a legal loophole that supposedly makes felonies unpunishable when performed in its Zone of Death. Features like the Fountain Paint Pots and Dragon’s Mouth Cave in this park are often accessed via (*) boardwalks. A 1995 ecological initiative aimed to reverse the effects of its earlier eradication of gray wolves. The multicolored Grand Prismatic Spring is one of many thermal features in this park. For 10 points, name this first National Park in the United States, the site of the geyser Old Faithful.

ANSWER: Yellowstone National Park

<CL, The World - Geography>

4. A speech given by an author from this country describes how showing “a people as one thing, as only one thing” creates “The Danger of a Single Story.” An essay subtitled “Racism in Conrad’s *Heart of Darkness*” was written by an author from this country. The first line of *Purple Hibiscus* alludes to a novel from this country set partly during the Week of (*) Peace. In that novel from this country, the colonization of Umuofia leads to the suicide of Okonkwo. For 10 points, name this home country of Chimamanda Adichie (“uh-DEE-chee-ay”) and the author of *Things Fall Apart*, Chinua Achebe.

ANSWER: Nigeria

<AL, Literature - Short Fiction>

5. **This planet's moon Galatea causes its outermost Adams ring to feature clumps called arcs. This planet anomalously radiates more than twice as much energy as it receives from the sun, causing it to have winds that break the sound barrier. One moon of this planet has a frozen nitrogen surface and is the largest moon in the Solar System with a (*) retrograde orbit.** Johann Galle discovered this planet on the same night that he received Urban Le Verrier's mathematical prediction of its existence. Since they were first observed in 1989, storms on this planet like the Scooter and the Great Dark Spot have disappeared. For 10 points, name this planet that is an ice giant like Uranus.

ANSWER: Neptune

<DB, Science - Other Science - Astronomy>

6. **A 1970 paper evaluating potential causes of this effect cited evaluation apprehension and pluralistic ignorance. This psychological phenomenon, which is related to the Ringelmann effect, was the subject of several studies by Latané ("LAH-tuh-nay") and Darley, including one in which a room was slowly filled with smoke while students answered a questionnaire. Those studies attribute this effect to the diffusion of (*) responsibility, and research into this effect first began following the murder of Kitty Genovese.** For 10 points, name this psychological effect in which people in large groups are less likely to provide help during a crisis.

ANSWER: bystander effect

<CB, Social Science - Psychology>

7. **This adjective is used to describe thirteen songs by the "Singing Brakeman" Jimmie Rodgers, who used the breaks between verses to yodel. This adjective can denote a pitch played at a slightly abnormal frequency, a type of "note" that lends its name to a jazz record label. This is the first word in the title of a song with a rhythm in 9/8 time that was inspired by (*) Turkish street musicians that Dave Brubeck heard.** Musicians like Robert Johnson pioneered a genre named for this word that often features 12-bar chord progressions. For 10 points, name this color referenced in a jazz-inspired "Rhapsody" by George Gershwin.

ANSWER: blue [or blues; accept "Blue Yodel"; accept blue note; accept Blue Note Records; accept "Blue Rondo à la Turk"; accept *Rhapsody in Blue*]

<CL, Arts - Other Arts - Jazz>

8. **In a novel by this author set on a cruise ship, Simon Doyle shoots his wife Linnet on their honeymoon. In another novel by this author, a handkerchief with a monogrammed H belongs to Natalia Dragomiroff. In that novel by this author, a body with twelve (*) stab wounds is revealed to be Daisy Armstrong's kidnapper Cassetti.** That murder is solved by the Belgian detective Hercule Poirot, who was a passenger aboard the title train. For 10 points, name this author of *Death on the Nile* and *The Murder on the Orient Express*, a British mystery novelist nicknamed "The Queen of Crime."

ANSWER: Dame Agatha Mary Clarissa Christie [or Agatha Miller; or Lady Mallowan; or Mary Westmacott]

<AL, Literature - Long Fiction>

9. **In one painting from this country, the subject appears unusually red compared to the three shades of blue sky next to it. An artist from this country who painted *Fine Wind, Clear Morning* showed rowers in three fish-transport boats clinging to their oars in his most famous painting. Another artist from this country depicted "One Hundred Views" of its then-capital, one of which shows a (*) plum garden.** Many artists from this country painted in the "floating-world" style, including one who painted "Thirty-Six Views" of one of its mountains. For 10 points, what is this home country of the *ukiyo-e* artist who painted *The Great Wave off Kanagawa*, Katsushika Hokusai?

ANSWER: Japan [or Nippon-koku or Nihon-koku]

<DM, Social Science - Painting>

10. After a highly anticipated trial-by-fire in this city was ruined by a sudden rainfall, an angry mob assaulted the convent of San Marco instead. A group of textile workers in this city rebelled in the Ciompi Revolt.

Infighting among Guelphs in this city led to a split into Black and White factions, and to the exile of Dante Alighieri from this city. Books and artworks were burned during the (*) Bonfire of the Vanities in this city on the order of Girolamo Savonarola. This city was long ruled by a banking family whose members included Cosimo and Lorenzo the Magnificent. For 10 points, name this Italian city once ruled by the Medici family.

ANSWER: Florence [or Firenze]

<NH, History - European History>

11. Small white spots on an X-ray indicate the miliary form of this disease. Rifampicin and isoniazid are among the RIPE drugs used to treat this disease, whose causative agent can be visualized by Ziehl–Neelsen acid-fast staining. Purified protein derivative, or PPD, is injected under the skin in the Mantoux test for this disease. The (*) BCG vaccine for this disease is primarily administered to children and was developed from a bovine *Mycobacterium*. This disease leads to night sweat and a bloody cough. For 10 points, name this lung disease historically known as consumption.

ANSWER: tuberculosis [or TB; accept consumption until mention]

<AZ, Science - Biology>

12. A comic book within this work is known as *Tales of the Black Freighter*. One prequel to this work centers on Moloch, an opponent of the Minutemen. A character in this work exiles himself to Mars after his friends are diagnosed with cancer. Another character with a changing black and white (*) facemask appears in this work, along with another nearly omnipotent blue character whose symbol is a hydrogen atom. The Comedian's Badge in this work is a yellow smiley face with blood splatter. For 10 points, name this Alan Moore graphic novel featuring characters like Rorschach, Ozymandias, and Doctor Manhattan.

ANSWER: Watchmen

<AJai, Pop Culture - Other Pop Culture>

13. This city will be where Israfil blows his trumpet to announce the Day of Resurrection. Tradition holds that this city was the site of the first qibla (“KEE-bluh”). A temple in this city is called “the farthest mosque.” A buraq (“boo-RAK”) transported Muhammad to this city’s (*) Al-Aqsa (“al-OX-uh”) Mosque on the Night Journey, during which Muhammad ascended into heaven. The Foundation Stone is located in this city, which is the third-holiest in Islam after Mecca and Medina and contains the Dome of the Rock. For 10 points, which city contains the Temple Mount, a holy site for Islam, Christianity, and Judaism?

ANSWER: Jerusalem [or al-Ouds or Yerushalayim]

<KT, Beliefs - Religion>

14. Male Indigenous Australians go on walkabout to undertake this process. Derek Freeman claimed that a book titled for this process was inaccurate because the subjects had been playing a joke on the researcher and did not actually have casual sex. In one of the first uses of fieldwork, Margaret Mead lived on the island of Ta'u (“TAH-oo”) and wrote an anthropological study titled for this process “in (*) Samoa.” In Mexico, the end of this process is celebrated by a *quinceañera*. This process is often marked with a rite of passage, such as reading from the Torah in Judaism. For 10 points, name this life process, the transition from childhood to adulthood.

ANSWER: coming of age [or adolescence; accept becoming an adult or becoming a man or becoming a woman before “adulthood”; prompt on growing up or aging or puberty; prompt on rite of passage]

<DM, Social Science - Other Social Science>

15. The *USS General Greene* assisted a force in this modern-day nation by blocking a port controlled by Andre Rigaud during the War of Knives. The terms “small whites” and “big whites” describe two distinct groups in a book about this nation’s history titled *The Black Jacobins*. The fort of Crête-à-Pierrot (“cret ah p’yair-OH”) was the site of a battle in this country where the defending force was forced to evacuate under (*) Jean-Jacques Dessalines. The Leclerc Expedition was sent by Napoleon to retake this country that was once the colony of Saint-Domingue. For 10 points, name this Caribbean country whose independence war against France was a slave revolt led by Toussaint L’Ouverture.

ANSWER: Republic of Haiti [or République d'Haïti or Repiblik d Ayiti]

<KT, History - World History>

16. This poet described a boy who holds up his hand “to keep/ The life from spilling” after a fatal accident with a buzz saw. In another poem, this poet compares falling boulders to “loaves” and “so nearly balls” during a “kind of out-door game,/ One on a side.” This poet of “Out, Out—” describes a traveler who chooses a (*) path because “it was grassy and wanted wear.” In his poem set during the “darkest evening of the year,” the speaker has “promises to keep,/ And miles to go before I sleep.” For 10 points, name this American poet of “Stopping By Woods on a Snowy Evening” and “The Road Not Taken.”

ANSWER: Robert Frost

<AL, Literature - Poetry>

17. The North German school of this instrument was founded by Jan Sweelinck and included Dietrich Buxtehude (“BOOKS-tuh-HOO-duh”). A work for this instrument opens with a mordent on A, followed by a descending minor scale to C-sharp, resolving up to D. Despite their name, trumpet voluntaries are works for this instrument, referencing its trumpet (*) stops. Johann Pachelbel's liturgical music for this instrument often did not use the pedalboard. For 10 points, *Toccata and Fugue in D Minor* is a piece for what keyboard instrument often built into the wall of a church?

ANSWER: pipe organ [prompt on keyboard before mentioned]

<JC, Arts - Music>

18. Several projects starring this actor, including *Clapping for the Wrong Reasons* and *Guava Island*, were directed by Hiro Murai. This actor loses a footrace to Michael Vick in a parking lot in one show. After being asked about meaningless conspiracies, one of this actor's characters asks "Did you know that Go-Gurt is just yogurt?" In a show created by this man, he plays a (*) Princeton dropout who manages his cousin, the aspiring rapper Paper Boi. This man first achieved acting success as Troy Barnes on *Community*, and created and stars in *Atlanta*. For 10 points, name this actor who also makes music under the name Childish Gambino.

ANSWER: Donald Glover [accept Childish Gambino before mentioned]

<AJai, Pop Culture - Movies/TV>

19. Though it’s not an acetyl, acetylation forms this functional group in the synthesis of acetylcholine and aspirin. The polymerization reaction between ethylene glycol and DMT forms a compound with this functional group. The cyclic version of these functional groups are (*) lactones. This functional group is found in triglycerides and in polymer fabrics like PET. A method for synthesizing compounds with this functional group using alcohols and carboxylic acids is named for Emil Fischer. For 10 points, name this functional group with formula R-C-O-O-R that is responsible for the fragrance of many fruits.

ANSWER: esters [accept polyesters; accept lactones until mentioned; do not accept “ethers”]

<SF, Science - Chemistry>

20. In July 2019, this company spun off its marketing cloud software to create a new company called Acoustic. From 2012 to 2017, this company suffered 22 straight quarters of declining revenue. Ginni Rometty retired as CEO of this company after completing the acquisition of the open source software company Red Hat in 2019. The use of buckling spring keyswitches distinguishes this company's Model (*) M keyboards. This company developed a system that responded "Toronto?????" to a clue about US cities. For 10 points, name this company that created the floppy disk and developed the computer systems Deep Blue and Watson.

ANSWER: **IBM** [or **I**nternational **B**usiness **M**achines Corporation]

<EM, The World - Current Events>

21. This particle was proven to exist using gamma rays from thallium-208. This particle was theorized as an unexpected positive solution to the Dirac equation. In the most common type of pair production, a high-energy photon is transformed into this positively-charged particle and its (*) antiparticle. This particle is emitted when an up quark changes flavor into a down quark. This particle annihilates with its antiparticle in its namesake "emission tomography," the PET scan. For 10 points, name this particle symbolized e-plus that has the same mass but opposite charge as an electron.

ANSWER: **positrons** [or **antielectrons** or **beta-plus**; accept **e-plus** before mentioned]

<DB, Science - Physics>

22. When this person's fleet is set on fire, the ships do not burn but reappear as sea nymphs instead. Along with Achates, this person encounters a mural that depicts the events of the Trojan War. After Diomedes crushes this person's hip with a boulder, this person's mother rescues him from the battle. Seeing the belt of Pallas convinces this person to not spare (*) Turnus's life. While on a hunt, a storm drives this person into a cave where he makes love to the queen of Carthage, Dido. The line "I sing of arms and the man" begins an epic poem named for this person. For 10 points, name this son of Venus, the title character of Rome's national epic by Virgil.

ANSWER: **Aeneas**

<RR, Beliefs - Mythology>

23. Gotthold Lessing discovered a poem by this man in which he presented a problem to count the number of cattle in the Herd of the Sun using Diophantine equations. This man used "myriads" to propose a calculation for the number of grains of sand in the universe. This man invented a defensive device that used a grappling hook to pull a ship out of a harbor. This man likely did not actually set up (*) burnished shields as a heat ray to defend from Roman invasion. This man's namesake principle deals with the buoyant force on an object. For 10 points, name this Greek polymath from Syracuse who legendarily ran through the streets naked shouting "Eureka!"

ANSWER: **Archimedes** of Syracuse

<JD, History - Ancient History>

24. In this novel one character receives a denim jacket, Nike shoes, and two band posters her parents smuggled from Turkey. A character in this novel who wanted to be a prophet tells God to "get out of my life!" after her uncle is executed as an alleged Russian spy. After slapping her principal and critiquing the regime for keeping political (*) prisoners, this novel's protagonist is sent to a boarding school in Vienna. This graphic novel opens with a section called "The Veil" describing Marji's school after 1979. For 10 points, name this autobiographical graphic novel about Marjane Satrapi's childhood during the Iranian revolution.

ANSWER: **Persepolis: The Story of a Childhood** [or **Persepolis: Volume 1**, do not accept or prompt on "Persepolis 2: The Story of a Return" or "Persepolis: Volume 2"]

Bonuses

1. Rodrigo Ranjel's ("RAHN-hellz") account of the Parkin Site of this civilization documented its noteworthy stockades and fortifications. For 10 points each:

[10h] Name this civilization of Native American peoples who lived in the central United States and flourished before European arrival. The Kincaid and Cahokia sites were inhabited by this civilization.

ANSWER: **Mississippian** culture

[10m] Members of the Mississippian culture built these large, layered, multi-purpose structures in a truncated-pyramid form. A "Great Serpent" one of these structures is the largest in the United States.

ANSWER: platform **mounds** [accept burial **mounds**]

[10e] The aforementioned Rodrigo Ranjel was a subordinate of Hernando de Soto, who landed in this state in 1539 and explored the American Southeast. Ponce de Leon founded St. Augustine in this state.

ANSWER: **Florida**

<JD, History - American History>

2. This work analogizes the acquisition of knowledge to a man being exposed to sunlight, then to reflections, and finally to objects themselves. For 10 points each:

[10m] Name this section of *The Republic* that allegorizes philosophical investigation to a group of humans living in the namesake feature.

ANSWER: Allegory of the **Cave** [accept, but DO NOT REVEAL, Plato's **Cave**]

[10e] *The Republic* and the Allegory of the Cave were written by this ancient Greek philosopher, a student of Socrates.

ANSWER: **Plato** [or **Platon**]

[10h] The Allegory of the Cave includes this Platonic theory, which posits that the physical world is merely a facade and that true knowledge comes from immutable, eternal concepts.

ANSWER: theory of **forms** [or theory of **ideas**; accept Platonic **forms**]

<CA, Beliefs - Philosophy>

3. These entities can be maintained in laboratories using media like DMEM or RPMI1640. For 10 points each:

[10m] Name these entities that come in suspension and adherent varieties. These entities are passed through a laser in flow cytometry.

ANSWER: **cells**

[10e] In addition to fetal bovine serum, cell culture media is often supplemented with penicillin and streptomycin, two examples of this general class of drugs that are designed to kill bacteria.

ANSWER: **antibiotics**

[10h] Adherent cells need to be "split" or "passaged" by using this serine protease to detach them from the flask. Media containing FBS is used to inhibit this protease after the cells are detached.

ANSWER: **trypsin**

<RC, Science - Biology>

4. In a poem by this author, the speaker questions, "Why are the senators sitting there without legislating?" For 10 points each:

[10h] Name this poet who wrote about a "people" who "were a kind of solution" in the poem "Waiting for the Barbarians." The speaker instructs Odysseus to not "hurry the journey" in this author's poem "Ithaka."

ANSWER: Constantine P. **Cavafy**

[10e] Cavafy was born to Greek parents in Alexandria in this country. In another poem, the speaker observes the "shattered visage" of a statue of Rameses II which overlooks "lone and level sands" in this country.

ANSWER: **Egypt**

[10m] Percy Shelley wrote this poem about the statue of Rameses II which had a "wrinkled lip, and sneer of cold command." The speaker of this poem reads the inscription, "Look on my Works, ye Mighty, and despair!"

ANSWER: "**Ozymandias**"

<WO, Literature - Poetry>

5. The ancient Greeks explained why sunflowers point towards the sun with the story of how this god transformed the nymph Clytie into a sunflower. For 10 points each:

[10e] Name this Greek sun god. The transformed Clytie supposedly spends all day staring at him. This god was occasionally conflated or combined with Helios, the personification of the sun.

ANSWER: **Apollo**

[10m] During her pursuit by Apollo, Daphne was transformed into this type of tree. Apollo then made this tree his sacred plant and a wreath of this tree's leaves are often given to victors.

ANSWER: **laurel** tree

[10h] After being captured by Tyrrhenian pirates, Dionysus transformed all of his captors, except the helmsman, into this type of animal.

ANSWER: **dolphin**

<JH, Beliefs - Mythology>

6. William Hogarth included one of these animals named Trump in many of his paintings, including separate scenes where Trump wears a wig and gets married. For 10 points each:

[10e] Name this animal. Critical theories regarding the symbolism of Trump in Hogarth's paintings include references to Hogarth's own "pugnaciousness" and the loyalty this animal usually represents.

ANSWER: **dog** [accept **pug**(...naciousness!)]

[10m] A dog's curly hair makes it hard to differentiate from flowers in a Jean-Honoré Fragonard painting titled for this object. A man hides in the bushes looking up at a woman who kicks off her shoe while on this object.

ANSWER: **swing** [or *The **Swing***]

[10h] Another difficult-to-find animal in painting is this animal in J.M.W. Turner's *Rain, Steam, and Speed*. In the painting, this animal is depicted running along the tracks in front of a locomotive of the Great Western Railway.

ANSWER: **hare** [or **rabbit**]

<SF, Fine Arts - Painting>

7. The history of this state was recounted in the Primary Chronicle of Nestor. For 10 points each:

[10m] Name this Slavic state led by the Rurikid Dynasty from what is now Ukraine. Yaroslav the Wise helped compile the law code of this state.

ANSWER: **Kievan Rus'** [prompt on **Rus**; do not accept "Russia"]

[10e] The Kievan Rus' was toppled by Mongol invasion, but the Rurikids survived to later found Russia. This later Rurikid tsar terrorized the populace with his *oprichniki* secret police and was named in part for his cruelty.

ANSWER: **Ivan the Terrible** [or **Ivan IV** Vasilyevich, prompt on **Ivan**]

[10h] Rurik, the founder of the Rurikid Dynasty, was one of these people. This was the name used by Greeks and Rus' for Vikings, and these people served as elite bodyguards to the Byzantine Emperors.

ANSWER: **Varangians** [accept **Varangian** Guard]

<NH, History - European History>

8. This probability distribution is equivalent to a chi distribution with three degrees of freedom divided by a certain scale parameter. For 10 points each:

[10h] Name this doubly-eponymous distribution that describes the probabilities of particles in an ideal gas having certain velocities.

ANSWER: **Maxwell-Boltzmann** distribution [accept **Maxwell-Boltzmann** statistics]

[10m] The scale parameter of the Maxwell-Boltzmann can be calculated from the average temperature of the gas, the molar mass of particles in the gas, and this value. This value is equal to Boltzmann's constant multiplied by Avogadro's number.

ANSWER: ideal **gas constant** [accept **R**]

[10e] The ideal gas law holds that pressure times this quantity is equal to nT times the gas constant. Units for this quantity include liters and gallons.

ANSWER: **volume** [accept **V**]

<DB, Science - Chemistry>

9. The prevention of this activity is the government's only function in Robert Nozick's "night watchman state." For 10 points each:

[10e] Name this activity, defined as breaking societal laws. Robert Merton's strain theory proposed that society places pressures on individuals, who then turn to this activity when they cannot meet societal expectations.

ANSWER: **crime** [prompt on **deviance**]

[10m] This French sociologist argued that crime serves the function of releasing social tensions, a theory he connected to his concept of *anomie*. He also wrote *The Division of Labor in Society* and *Suicide*.

ANSWER: Émile **Durkheim**

[10h] Durkheim considered crime to be an example of the "social" type of these things. The "social" form of these things refers to certain values and norms that constrain an individual's behavior as a form of social control.

ANSWER: social **facts**

<CA, Social Science - Other Social Science>

10. Identify some sights that you might see cruising down a certain European river, for 10 points each.

[10h] Your cruise along this river might stop at the 12th-century Stone Bridge in the medieval city of Regensburg and then later at the abbey of Melk. You'll eventually pass through this river's Iron Gates gorge.

ANSWER: **Danube** River [accept **Donau**, **Duna**, **Dunarea**, or **Dunav** in place of "Danube"]

[10e] Your trip down the Danube will begin in a German forest and end at a sea that are both named for this color, which also describes a type of cake with cherries on top from that forest.

ANSWER: **black** [accept **Black** Forest; accept **Black** Sea]

[10m] Your cruise might stop in cities like Vienna, Bratislava, Belgrade, and this other capital city, which was formed from the 1873 merging of two twin cities that were divided by the Danube.

ANSWER: **Budapest**

<CL, The World - Geography>

11. 3,000 people are massacred after a workers' strike at a banana plantation in this novel. For 10 points each:

[10m] Name this novel in which Úrsula Iguarán's ("OOR-soo-lah ee-gwah-RAHNZ") fear comes true when a baby is born with a pig's tail and eaten by ants.

ANSWER: ***One Hundred Years of Solitude*** [accept ***Cien Años de Soledad***]

[10h] The opening line of *One Hundred Years of Solitude* describes Colonel Aureliano Buendía facing one of these events. It is later revealed that Aureliano's brother, José Arcadio, saves him from this event.

ANSWER: execution by **firing squad** [prompt on **execution** or **killing** or answers involving **death**]

[10e] This Colombian author of *One Hundred Years of Solitude* also wrote *Love in the Time of Cholera*.

ANSWER: Gabriel **García Márquez**

<AL, Literature - Long Fiction>

12. This player earned the Man of the Match award at the 1992 World Cup Final, where he bowled Allan Lamb and Chris Lewis in consecutive deliveries. For 10 points each:

[10h] Name this man, a left-handed pace bowler considered one of the greatest of all time. Conflicts between him and his national teammate Waqar Younis ("WUH-kar YOO-niss") led to the latter staying off the team in 2000.

ANSWER: Wasim **Akram**

[10e] Akram played this bat-and-ball sport popular among states in the British Commonwealth. In this game, a batsman is said to be "bowled" if he fails to prevent the ball from hitting the wicket.

ANSWER: **cricket**

[10m] Akram played for this country's national cricket team. His teammates on that team included Waqar Younis and this country's current prime minister, Imran Khan.

ANSWER: Islamic Republic of **Pakistan**

<SB, Pop Culture - Sports>

13. In 2020, England shifted to presumed consent for this action after death, which is projected to drastically shorten hospital waiting lists. For 10 points each:

[10e] Name this life-saving action, which can be subject to "opt-in" or "opt-out" policies. In the United States, willingness to perform this action after death is often indicated on driver's licenses.

ANSWER: **organ donation** [accept word forms, like **donating organs**]

[10h] Making organ donation opt-out is an example of this concept, which describes policies that implement indirect suggestions aimed at affecting choices. Richard Thaler and Cass Sunstein co-authored a book titled for this action.

ANSWER: **nudges** [accept word forms, like **nudging**; accept **nudge theory**]

[10m] Nudge theory falls under this subfield of economics, which deals with the irrationality of human agents. Daniel Kahneman, a scholar in this field, described heuristics and biases in his book *Thinking, Fast and Slow*.

ANSWER: **behavioral** economics

<AJJ, Social Science - Economics>

14. This physicist posited the existence of energy quanta in order to resolve the ultraviolet catastrophe. For 10 points each:

[10m] Name this physicist. Since his namesake constant is defined in terms of angular frequency, it is often “reduced” by dividing it by two pi.

ANSWER: Max **Planck** [or Max Karl Ernst Ludwig **Planck**]

[10h] Planck’s theory of energy quanta was used to explain this effect. Photomultiplier tubes use secondary emission triggered by this effect to detect low-intensity electromagnetic radiation in the ultraviolet and visible ranges.

ANSWER: **photoelectric** effect

[10e] The photoelectric effect was explained in one of this physicist’s *annus mirabilis* papers. That same year, he also developed special relativity and expressed mass-energy equivalence with the equation “E equals m c squared.”

ANSWER: Albert **Einstein**

<SB, Science - Physics>

15. Answer the following about Buddhist doctrine, for 10 points each.

[10e] This term denotes release from *samsara*, the cycle of birth and rebirth. Although it has been identified with enlightenment or bliss in Western usage, it is distinct from both.

ANSWER: **nirvana**

[10m] Buddhist teachings hold that freedom from suffering can be achieved by way of this set of practices that lead to nirvana. Its components include right view, right resolve, and right speech.

ANSWER: Noble **Eightfold Path** [or Noble **Eightfold Way**]

[10h] In the Theravada Buddhist tradition, this term denotes someone who has completed the path of enlightenment, achieved *nirvana*, and perfected themselves.

ANSWER: **arhats** [or **arahants**]

<WY, Religion - Buddhism>

16. The solution to the inscribed rectangle problem involves representing pairs of unordered points as this figure. For 10 points each:

[10e] Name this one-sided figure obtained by inserting a half-twist into a sheet and connecting the endpoints.

ANSWER: **Möbius strip** [or **Möbius band**]

[10m] Gluing a Möbius strip to a circular disk results in a projective plane described by this word. This adjective describes a set of numbers on the x-axis of the complex plane.

ANSWER: **real** [accept **real** projective plane or **real** numbers]

[10h] Like the torus and Klein bottle, the Möbius strip has a value of zero for this quantity. This quantity for a polyhedron is calculated by taking the number of vertices minus the number of edges plus number of faces.

ANSWER: **Euler characteristic** [or **Euler number**, or **Euler-Poincaré characteristic**, prompt on partial]

<LM, Science - Other Science - Math>

17. A character in this story solves her money problem by visiting Madame Sofronie. For 10 points each:

[10e] Name this O. Henry story in which Jim sells his watch to buy his wife Della a comb for Christmas, but Della had sold her hair to buy Jim a chain for his watch.

ANSWER: “The **Gift of the Magi**”

[10m] “The Gift of the Magi” uses this plot device, designed to elicit a surprise from the reader at the conclusion. Many O. Henry stories employ this plot device, as does Kate Chopin’s “The Story of an Hour.”

ANSWER: **twist** ending

[10h] The homeless Soapy spends most of “The Cop and the Anthem” trying to make this event occur so he can find a place to sleep. The twist ending is that only after resolving to find a job does this event happen.

ANSWER: getting **arrested** [accept getting **sent to jail** or anything indicating he’s in **prison**]

<RC, Literature - Short Fiction>

18. This city's largest English-language newspaper was purchased by Alibaba in 2016. For 10 points each:
[10m] Name this city where the *South China Morning Post* recently covered a series of lunchtime protests in support of the Five Demands and against a new National Security Law passed in May 2020.

ANSWER: **Hong Kong** [or **Hong Kong** Special Administrative Region]

[10h] In May 2020, a SCMP columnist suggested that this current chief executive of Hong Kong should follow Donald Trump's example in opposing "fake news." This leader supported the National Security Law.

ANSWER: Carrie **Lam** Cheng Yuet-ngor

[10e] In July 2020, this country passed the Hong Kong Autonomy Act sanctioning Lam and several other people. This country added more sanctions just before a March 2021 meeting with Chinese diplomats in Anchorage, Alaska.

ANSWER: **United States** of America [or the **USA**]

<EM, The World - Current Events>

19. Answer some questions about the cinema of the Soviet Union, for 10 points each.

[10h] This early silent film by Sergei Eisenstein is often counted among the greatest films of all time, and dramatizes a 1905 mutiny aboard an Imperial Russian naval vessel.

ANSWER: ***Battleship Potemkin*** [accept ***Battleship Potyomkin***]

[10m] Eisenstein popularized this editing technique outside the Soviet Union. An example of this technique in American cinema concludes with the title character running up the steps of the Philadelphia Museum of Art.

ANSWER: film **montage** [or training **montage**] (The montage is from *Rocky*.)

[10e] Dziga ("JEE-guh") Vertov's *Man With a Movie Camera* was a highly influential film in this genre. More recent works in this genre include Ava Duvernay's *13th*, Michael Moore's *Bowling for Columbine*, and Ken Burns' *The Vietnam War*.

ANSWER: **documentary** film

<CB, Arts - Other Arts - Film>

20. Restaurants and cafes were targeted by women hiding bombs in their clothing during the independence war in this country. For 10 points each:

[10m] Under the leadership of Ahmed Ben Bella, the FLN won the independence of which North African country, prompting a mass exodus of its *pied-noir* population?

ANSWER: **Algeria** [or **al-Jaza'ir**]

[10h] This right-wing paramilitary group opposed the independence of Algeria, and carried out a series of attacks on Algerian institutions, even after the signing of the Évian Accords ended the war.

ANSWER: **OAS** [or **Organisation Armée Secrète**]

[10e] The OAS consisted of dissident military forces of this country and tried to assassinate its president Charles de Gaulle.

ANSWER: **France**

<MP, History - World History>

21. This composer wrote a staggering five hundred concerti, about half of which were for violin. For 10 points each:

[10e] Name this composer who collected some of his violin concerti in *The Contest Between Harmony and Invention*, which includes *The Four Seasons*.

ANSWER: Antonio **Vivaldi**

[10h] *The Contest Between Harmony and Invention*, like other Vivaldi works as *The Harmonic Inspiration*, is a collection of this many concerti. This is also the *total* number of movements in *The Four Seasons* concerti set.

ANSWER: **twelve**

[10m] In *The Four Seasons*, Vivaldi depicts one of these events in the final movement of "Summer." Vivaldi also wrote a flute concerto titled for one of these events at sea.

ANSWER: thunder**storm** [or **tempesta**]

<JC, Arts - Music>

22. Fake advertisements declare “She should have used Odorono” and promote Heinz Baked Beans for tea on this band’s third album. For 10 points each:

[10m] Name this English rock band who recorded themselves “selling out” on that album. Their other albums include *My Generation* and *Tommy*.

ANSWER: The **Who**

[10e] *The Who Sell Out* pays tribute to the pirate stations of this medium. Music is often played on FM frequencies of this medium.

ANSWER: **radio**

[10h] The back cover of *The Who Sell Out* features this drummer for the Who applying Medac spot cream from an enormous tube. This drummer would often blow up hotel toilets with fireworks and cherry bombs.

ANSWER: Keith **Moon**

<AZ, Pop Culture - Pop Music>

23. Over its history, the Roman Republic and Roman Empire fought many wars of territorial expansion. For 10 points each:

[10m] By defeating the Helvetii, the Roman Republic captured much of the land that makes up this modern-day country.

ANSWER: **Switzerland**

[10e] The province of Sardinia et Corsica was taken from this empire while it was busy fighting the Mercenary War. This empire lost the Punic Wars against Rome despite the victories of their general Hannibal.

ANSWER: **Carthage** [or **Carthago**]

[10h] Trajan was known for his many successful wars of conquest, including this kingdom located mostly in modern-day Romania. The Roman conquest of this kingdom influenced the development of the Romanian language.

ANSWER: **Dacia**

<JH, History - Ancient History>

24. A lost ending is hinted at based on annotations in the Rouge versions of this novel. For 10 points each:

[10h] Name this novel which details the Jia clan’s fall from grace. The main female characters in this novel are called the Twelve Beauties of Jinling.

ANSWER: ***Dream of the Red Chamber*** [or **Honglouloumeng** or ***The Story of the Stone***]

[10e] *Dream of the Red Chamber* is one of the Four Great Classical Novels of this country. *The Three-Body Problem*, which begins with the protagonist's parents being killed in the Cultural Revolution, is set in this country.

ANSWER: **China** [or **Zhongguo**]

[10m] In this part of *Dream of the Red Chamber*, a sentient stone wants to learn about human existence. Examples of this aspect of a story in other books include Scheherezade's narration in *Arabian Nights*.

ANSWER: **frame** story [or **frame** narrative or **frame** tale or **sandwich narrative**; prompt on **opening** or **intercalation**]

<EM, Literature - Long Fiction>