

**LOGIC (Lots of Good Interesting Content)**  
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**Packet 2**

**Tossups**

1. **One work in this franchise and its sequel have distinct “Athletic” themes, one of which was reused for the theme of Hightail Falls. This franchise has many “Ground” themes, the second of which was lifted directly from the Japanese game *Doki Doki Panic*. A song from this franchise claims “Now you’ve got panache” after saying to “put a comb through that (\*) ‘stache.” That song from this franchise is sung by Pauline, the mayor of New Donk City. Koji Kondo composed the music to the early games of this franchise, making tracks like “Piranha Plant’s Lullaby.” For 10 points, name this video game franchise with many “Superstar” and “Bowser” themes.**

ANSWER: Super **Mario** Brothers franchise <EA, Trash>

2. **A governess in this play performs a magic trick in which she pulls an eight of spades out of a man’s coat pocket. That woman, Charlotta, performs for an audience that includes a man shocked by a one hundred year old bookcase and the “eternal student.” At the end of this play, a servant is locked into a house and lays down on a couch to die instead of trying to escape. That servant is (\*) Firs. Anya falls in love with Peter Trofimov in this play, which ends with the sound of axes chopping down trees. For 10 points, name this Anton Chekhov play in which Lopahkin purchases Madame Renavskaya’s title estate.**

ANSWER: *The **Cherry Orchard*** <DB, Drama>

3. **According to the Nice [neese] model, the migration of some of these objects triggered the Late Heavy Bombardment. The nebular hypothesis explains the formation of these objects from an accretion disk. A certain object was declared to not be one of these objects because it failed to clear its neighborhood in a 2006 International (\*) Astronomical Union resolution. The unusual clustering of Kuiper belt objects is sometimes explained with the hypothesis of a “ninth” one of these objects. These objects can be classified as terrestrial, as ice giants, or as gas giants. For 10 points, name these objects of the Solar System which include Jupiter and Earth.**

ANSWER: the **planet**s of the Solar System [accept specific categories of planets like **gas giants** or **ice giants** or **terrestrial planets** before “terrestrial”; prompt on the **Solar System**; do NOT accept answers like “dwarf planets;” do NOT accept or prompt on “exoplanets” or answers which otherwise refer to planets outside of the Solar System] <GC, Astronomy>

4. **This deity was often thought by ancient writers, such as Artapanus of Alexandria, to have been incarnated as Moses. In one tale, this deity sends seven scorpions to protect Isis; in another, this deity helps heal Horus after he is stung by a different scorpion. In Greek times, this god was syncretized with Hermes in the form of Hermes Trismegistus and had a cult center at Hermopolis. To help Nut give birth, this god played *senet* against Khonsu and won (\*) 5 days worth of additional light. This god, who assists Anubis in weighing the hearts of the dead, has a beak that represents the crescent moon. For 10 points, name this ibis-headed Egyptian god of magic, writing and knowledge.**

ANSWER: **Thoth** [Also Accept **Djehuty**; prompt on Hermes **Trismegistus** before it is read] <WG, Myth>

5. **One siege during this conflict supposedly saw the creation of a claw that could pull ships out of water and a heat ray, though the engineer responsible for them was killed after the siege ended. Marcus Minucius Rufus opposed the guerrilla tactics employed by Quintus Fabius Maximus during this war. This war began with an attack on the city of (\*) Saguntum, and its eventual victors suffered terrible defeats at Trebia and Lake Trasimene. This war ended after Scipio Africanus won the Battle of Zama over a general who had earlier marched an army across the Alps into Italy. For 10 points, name this war in which Hannibal led Carthaginian troops against Rome.**

ANSWER: **Second Punic** War [Accept **Hannibalic War**, prompt on the **Punic** War] <GP, Ancient/Other History>

6. A president of this country had all the black dogs in this nation murdered after claiming his former ally Clement Barbot had turned into one. Bill Clinton sent troops to overthrow one leader of this country in Operation Uphold Democracy. A leader of this country who employed the Tonton Macoute secret police rose to power from his former occupation as a physician. “Papa (\*) Doc” Duvalier led this country, whose presidential palace collapsed in a recent disaster that displaced a tenth of its population and sparked a humanitarian crisis. For 10 points, name this Caribbean country devastated by a 2010 earthquake.

ANSWER: Republic of Haiti <AN, World History>

7. In this play, a woman trades her ring for a monkey after leaving home along with Lancelet. That woman in this play runs away to marry Lorenzo. Two women in this play dress up as a law clerk and Balthazar and ask their husbands for their wedding rings in exchange for their services. A Moroccan Prince in this play picks a gold (\*) casket, losing his chance to marry another woman. The title character of this play almost loses a pound of flesh to a Jewish moneylender. For 10 points, name this Shakespeare play about Antonio and the wily Shylock, who work in the title city full of canals.

ANSWER: *The Merchant of Venice* <EA, Drama>

8. In the first chapter of this Biblical book, four messengers report various calamities, each ending their report by saying “And I only am escaped alone to tell thee.” In this book, the line “Man is born to trouble as the sparks fly upward” is spoken by Eliphaz, a friend of the central character along with Bildad and Zophar. This book, which opens with a (\*) wager between God and Satan, includes an episode in which the title character is told by his wife to “curse God, and die” after he is afflicted with boils. God speaks to the title character from a whirlwind after testing his faith in, for 10 points, what Biblical book which centers on a righteous suffering man?

ANSWER: Book of Job [or Iyov or Iyovob] <TB, Mythology>

9. The artist of this painting depicted themselves looking at the viewer on this painting’s right next to a man holding a star-studded orb. This painting is adjacent to the painting *The Parnassus* and a setting of *The Disputation* in its location on the wall of a former library. A figure writing on a marble desk below this painting’s two main figures represents (\*) Heraclitus. Epicurus and Zeno read from a book on this painting’s right side, while Diogenes reclines in front of two figures who gesture their different worldviews. For 10 points, name this fresco in the Stanza della Segnatura depicting a debate between Plato and Aristotle and created by Raphael.

ANSWER: *The School of Athens* [or *La Scuola di Atene*] <DB, Visual Fine Arts>

10. This phenomenon can generate singlet oxygen that becomes subsequently quenched by carotenoids. A form of this phenomenon can cause the formation of thymine dimers. Transducin becomes activated after this phenomenon triggers an isomerization reaction in rhodopsin. The Calvin cycle is often named for occurring (\*) independently of this phenomenon. This phenomenon causes electron excitation in chlorophyll, which converts the energy of this phenomenon in chemical energy stored in the form of carbohydrates. Photosynthesis requires--for 10 points--what phenomenon produced by the sun?

ANSWER: sunlight [or photons; or electromagnetic radiation; or electromagnetic waves; accept specific forms of light like blue or ultraviolet] <GC, Biology>

11. In contrast to the Schrödinger equation, the predictions of this theory are applied to quantum mechanics by the Klein-Gordon and Dirac wave equations. The “pole in the barn” paradox that arises in a naive treatment of this theory is resolved by the fact that absolute simultaneity does not exist within this theory. In this theory, the reciprocal of the square root of one minus velocity squared divided by c squared is the (\*) Lorentz factor. This theory predicts the existence of length contraction and time dilation for objects moving at close to the speed of light. For 10 points, identify this 1905 theory proposed by Albert Einstein 10 years before a related “general” theory.

ANSWER: special relativity [or SR; prompt on relativity; do not accept or prompt on general relativity or GR] <GC, Physics>

12. One thinker from this school viewed ideas as tools for solving problems and believed that the worth of a thought depended on how well it explains natural phenomena, a viewpoint called instrumentalism. A “neo” form of this school was first delineated in *Philosophy and the Mirror of Nature* by Richard Rorty. Materialistic “tough-minded” and idealistic “tender-minded” people are contrasted in a book titled for this school, which proposes that a statement’s truth is determined based on its (\*) “cash value.” John Dewey and William James were members of--for 10 points-- what American school of thought that espouses practicality?

ANSWER: pragmatism [accept neopragmatism] <EA, Philosophy>

13. This person was sent by Sidney Herbert to organize the Selimiye Barracks in Scutari. This person’s development of a polar area diagram pointed out that many deaths during a war were due to preventable causes. One of the few recordings of this person’s voice was made from her speech in support of the (\*) Light Brigade Relief Fund. This woman had a rocky relationship with the Jamaican Mary Seacole, and since 1912 the Red Cross has awarded a medal named for this social reformer. For 10 points, name this nurse whose work in the Crimean War led to her being nicknamed the “Lady With the Lamp.”

ANSWER: Florence Nightingale <AN, European History>

14. In one novel set in this city, the protagonist participates in The Tarzan Tree Jumping Contest with her neighbor Meme Ortiz, who breaks both of his arms competing. In another novel set in this city, the protagonist leaves his job at Durham’s fertilizer plant and runs away into the countryside after his son Antanas drowns in a flooded street. “An American” born in this city is the protagonist of Saul Bellow’s *The Adventures of (\*) Augie March*. Esperanza Cordero lives on Mango Street in this city, and Jurgis Rudkus joins the Socialist party after being subjected to this city’s meatpacking industry. For 10 points, name this city, the setting of Upton Sinclair’s *The Jungle*.

ANSWER: Chicago, Illinois <EA, Long Fiction>

15. This actor is idolized by a man who is hunted after killing a police officer in Jean Luc-Godard’s film *Breathless*. A character played by this actor interrupts a man performing the song “As Time Goes By” before noticing a familiar woman. The public fascination surrounding this actor’s relationship with Lauren Bacall led to them being cast together in films like *The Big Sleep*. In the 1941 version of *The (\*) Maltese Falcon*, this actor played Sam Spade. This actor employs a pianist named Sam at his bar in a film in which he stars opposite Ingrid Bergman as Elsa. For 10 points, name this American actor who played Rick Blaine in *Casablanca*.

ANSWER: Humphrey Bogart <DB, Other Fine Arts>

16. In one story by this author, the narrator discusses a novel with 13 chapters and 5 separate novels within, called *April-March*. This author of “A Survey of the Works of Herbert Quain” wrote a short story that presents a guessing game whose answer is chess. In that story, a man sets out to write a book and create a (\*) labyrinth, only to combine the two. Another story by this author is titled for a structure consisting of infinite hexagonal rooms containing all possible books. For 10 points, name this Argentinian author of “The Garden of Forking Paths” and “The Library of Babel.”

ANSWER: Jorge Luis Borges [or Jorge Francisco Isidoro Luis Borges Acevedo] <EA, Short Fiction/Other>

17. Substances like EMIM chloride and other ILs are used as these substances in the laboratory. The polarity of these substances is described by their dielectric constants. These substances can be classified as protic or aprotic. These substances are removed using a rotavap. A molecule can be transferred from one of these substances to another in the procedure of extraction. These substances cannot (\*) mix if they are immiscible with respect to each other. Hexane is a commonly used one of these substances in organic chemistry used to dissolve nonpolar molecules. For 10 points, name these substances in which solutes are dissolved to produce solutions.

ANSWER: solvents <GC, Chemistry>

18. The syncopated rhythm of the “Arietta” second movement of this composer’s final piano sonata was described by pianist Jeremy Denk as “proto-jazz.” The word “Lebewohl” [LAY-buh-voll] is written as split over the first three chords of a piano piece by this composer. This composer of the *Les Adieux* [lez ah-dyoo] Sonata wrote a C-sharp minor piano sonata whose “adagio sostenuto” (\*) first movement instructs the performer to hold down the damper pedal for its entirety and was likened by the critic Ludwig Rellstab to the reflection of the night sky onto Lake Lucerne. For 10 points, name this composer of the *Moonlight Sonata*.

ANSWER: Ludwig van Beethoven <DB, Auditory Fine Arts>

19. One of the last major portions of interstate highway to be completed has cantilevered portions and passes through Hanging Lake Tunnel in this state’s Glenwood Canyon. Mount Princeton and Mount Harvard are among this state’s Collegiate Peaks, a part of the Sawatch Range. The Painted Wall is a sheer cliff located in this state’s Black Canyon of the (\*) Gunnison, and its San Luis Valley contains the tallest sand dunes in North America. The Garden of the Gods is located outside a city in this state that is home to the U.S. Air Force Academy, and this state’s flagship university is located in its city of Boulder. Mesa Verde and Pike’s Peak are located in, for 10 points, what Rocky Mountain state with a capital at Denver?

ANSWER: State of Colorado <JG, Geography>

20. One member of this family served as Lincoln’s Minister to the United Kingdom and ran as the vice presidential nominee for the Free Soil Party in 1848. Another member of this family collapsed and died after yelling “No!” to oppose a measure on the House floor. That member of this family had served as the first US Minister to (\*) Russia and was an opponent of the “gag” rule. This was also the family of a man who faced the Quasi War and signed the Alien and Sedition Acts as president, and who was told to “remember the ladies” by his wife Abigail. For 10 points, give this family of father and son presidents John and John Quincy.

ANSWER: Adams family [accept Charles Francis Adams, John Quincy Adams, and John Adams] <AN, American History>

## Bonuses

1. This economist described the law of rent in *On the Principles of Political Economy and Taxation*. For 10 points each:

[10] Name this economist who, along with Ferdinand Lasalle, is often credited with devising the iron law of wages. He also used the example of English cloth and Portuguese wine to illustrate a key concept in his theory of trade.

ANSWER: David **Ricardo**

[10] Ricardo's example of English cloth and Portuguese wine is used to demonstrate this concept, which states that nations should devote resources to their strongest industries, where the opportunity cost is lower.

ANSWER: **comparative advantage**

[10] Ricardo was a proponent of free trade, so he opposed these protectionist taxes on imports. The Corn Laws levied these import taxes on grain, while the Trump administration has used these taxes to target Chinese imports.

ANSWER: **tariffs** [prompt on duties; prompt on taxes] <TB, Social Science>

2. George Walkden has argued that this word more likely means "How" rather than "So!," which is what Seamus Heaney used in his translation of the work it appears in. For 10 points each:

[10] Give this original-language word that begins an epic whose hero saves the mead hall Heorot from being attacked by a descendant of Cain.

ANSWER: **hwæt** [huh-wait] [be forgiving on pronunciations, prompt on "Ho!" or "Listen!" or any other word along the lines of getting people's attention]

[10] The word "hwæt" opens this epic, whose hero helps the king Hrothgar by killing the evil Grendel and his mother. The title Danish warrior of this epic is eventually killed by a dragon.

ANSWER: **Beowulf**

[10] *Beowulf* was written in the "old" version of this language. The transition between the "middle" and "modern" forms of this language is seen in the works of authors like William Shakespeare.

ANSWER: **English** [accept Old **English**, Middle **English**, or Modern **English**] <EA, Long Fiction>

3. This sculptor's version of *The Kiss* consists of two figures carved into a rectangular block of marble. For 10 points each:

[10] Name this Romanian sculptor of *Sleeping Muse* and the *Endless Column*.

ANSWER: Constantin **Brâncuși** [bran-KOOSH]

[10] Brâncuși created a series of sculptures named for these animals "in Space" that were controversially taxed as "manufactured metal objects" instead of art by U.S. Customs. Those sculptures depict the flight of these animals.

ANSWER: **birds** [accept **Bird in Space**]

[10] Brâncuși included *The Endless Column* as part of a World War I memorial in his hometown of Târgu Jiu. This other Brâncuși sculpture at the same site consists of twelve hourglass-shaped stones around a central cylinder.

ANSWER: **Table of Silence** <JG, Visual Fine Arts>

4. The concentration of acute-phase proteins changes in response to this process. For 10 points each:

[10] Identify this immune response in which affected tissue becomes red, swollen, and hot.

ANSWER: **inflammation**

[10] Inflammation is triggered in part by the release of this molecule. The release of this molecule triggers the immune response seen in allergies.

ANSWER: **histamine**

[10] Histamine is released during degranulation of both basophils and these cells. Many anti-allergy medications, such as cromolyn, are "stabilizers" of these cells.

ANSWER: **mast** cells [accept **mast** cell stabilizers] <GC, Biology>

5. This leader once pitched a large Bedouin tent on a Trump estate in Bedford, New York. For 10 points each:  
[10] Name this former military dictator of Libya, who was captured and killed while trying to flee Sirte in 2011.

ANSWER: Muammar al-**Gaddafi** [or Muammar al-**Qaddafi**]

[10] Gaddafi came to power after deposing this Senussi ruler in the 1<sup>st</sup> of September Revolution.

ANSWER: **Idris** I [accept El Sayyid Prince Muhammad **Idris** bin Muhammad al-Mahdi as-Senussi]

[10] Gaddafi's political philosophy was published in a book named for this color. Under Gaddafi's reign, Libya's flag consisted of only this color.

ANSWER: **green** [or *The **Green** Book*; or *Al-Kitab Al-**Akhdar***] <WG, World History>

6. In one myth, this deity uses worms and bees to create a trumpet out of a conch shell. For 10 points each:

[10] Name this deity, who created the people of the fifth world using his blood and the bones of people from a previous world. This feathered serpent deity disappeared sailing east on a raft of serpents.

ANSWER: **Quetzalcoatl** [ket-zal-co-aht-uhl]

[10] Quetzalcoatl appears in the religion of this Mesoamerican culture, who may have confused the arrival of Hernan Cortes for the return of Quetzalcoatl.

ANSWER: **Aztec**

[10] In one story, Tezcatlipoca [tez-caht-lee-POH-kah] used one of these objects as bait for the giant monster Cipactli. The Greek name "Oedipus" derives from a word for these objects.

ANSWER: **foot** [or **feet**] <WG, Mythology>

7. This man gave the "Ballot or the Bullet" speech and claimed "We didn't land on Plymouth Rock. The Rock was landed on us." For 10 points each:

[10] Name this Civil Rights leader, who was assassinated at the Audubon Ballroom in 1965. This activist changed his last name from Little, which he called a "slave master name."

ANSWER: **Malcolm X** [accept el-Hajj Malik el-**Shabazz**, prompt on **Malcolm** and **X**]

[10] Malcolm X's violent rhetoric was a contrast to this Baptist minister's non-violent approach to the Civil Rights Movement. This civil rights leader gave the "I Have a Dream" speech and was assassinated by James Earl Ray.

ANSWER: Martin Luther **King** Jr.,

[10] Both Martin Luther King and Malcolm X were targets of this program. This FBI program involved the infiltration and targeting of predominantly leftist groups such as the Young Lords and the Weathermen.

ANSWER: **COINTELPRO** [accept **Counter-Intelligence Program**] <AN, American History>

8. Answer the following about the composer Alan Hovhaness. For 10 points each:

[10] Hovhaness paired a Prelude with a rare "Quadruple" invertible example of this type of contrapuntal piece with a subject and episodes. A similar such piece was meant to conclude the unfinished "Art of" these works by J. S. Bach.

ANSWER: **fugue** [or *The Art of **Fugue***; or *The Art of the **Fugue***]

[10] Hovhaness's second symphony is titled for a "Mysterious" one of these features. Edvard Grieg wrote a piece that appears in his *Peer Gynt Suite* titled for a "King" who lives in one of these places.

ANSWER: **mountain** [accept *The Mysterious **Mountain*** or "In the Hall of the **Mountain** King"]

[10] Armenian folk songs are often found in Hovhaness's works. This Armenian composer used many such folk songs for his ballet *Gayane*, which contains the xylophone-heavy "Sabre Dance."

ANSWER: Aram **Khachaturian** <EA, Auditory Fine Arts>

9. The speaker of this poem claims to have “measured out [his] life with coffee spoons.” For 10 points each:  
[10] Name this poem which asks “Do I dare to eat a peach?” and “Do I dare disturb the universe?” This poem begins by declaring “Let us go then you and I.”

ANSWER: “The **Love Song of J. Alfred Prufrock**”

[10] This poet of “The Love Song of J. Alfred Prufrock” included the sections “Death by Water” and “What the Thunder Said” in his poem “The Waste Land.”

ANSWER: Thomas Stearns **Eliot** [or T. S. **Eliot**]

[10] In “The Love Song of J. Alfred Prufrock,” the speaker describes squeezing “the universe into a ball” in an allusion to this other poem which describes two characters rolling all their “sweetness into one ball.”

ANSWER: “**To His Coy Mistress**” <WG, Non-Epic Poetry>

10. This man won a bet with Steven Hawking about the identity of Cygnus X-1. For 10 points each:

[10] Name this theoretical physicist who, along with Rainer Weiss and Barry C. Barish, was awarded the 2017 Nobel Prize in Physics.

ANSWER: Kip Steven **Thorne**

[10] Those Nobel Prize recipients were the chief scientists on LIGO, which made the first detection of these spacetime disturbances predicted by general relativity.

ANSWER: **gravitational waves** [prompt on waves; do not accept or prompt on gravity waves]

[10] The first gravitational waves detected by LIGO were produced by a merger of two of these objects from which light cannot escape. The first image of one of these objects was made by the Event Horizon Telescope in April 2019.

ANSWER: **black holes** <JG, Other Science>

11. The phase diagram for one of these materials contains mole fraction on the x-axis and temperature on the y-axis. For 10 points each:

[10] Identify these solid solutions consisting of a mixture of a metal and at least one other element. Steel is one of these materials.

ANSWER: **alloys**

[10] Steel is an alloy of iron and this non-metal element. Cast iron contains iron, silicon, and this element.

ANSWER: **carbon** [or **C**]

[10] Steel can be made corrosion resistant by adding this metal to steel, such that it is approximately 11% this element. An orange colored ion that contains seven atoms of oxygen and two atoms of this element in the plus 6 oxidation state is a common oxidizing agent.

ANSWER: **chromium** [or **Cr**] <GC, Chemistry>

12. Washington Governor and former Democratic presidential candidate Jay Inslee structured his campaign around this issue, going so far as to call for a debate entirely focused on this topic. For 10 points each:

[10] Name this political issue. The Paris Agreement is a global accord about this issue with 175 signing parties, although the U.S. announced its intention to withdraw in 2017.

ANSWER: **climate change** [or **global warming**; prompt on climate alone]

[10] This congresswoman from New York’s 14th district co-sponsored a Green New Deal bill. This congresswoman joined the Sunrise Movement in staging a climate sit-in at Nancy Pelosi’s office.

ANSWER: Alexandria **Ocasio-Cortez** [or **AOC**; prompt on partial surname]

[10] Through exerting societal pressure, climate change activists have tried to convince companies to perform this action to remove financial holdings in fossil fuel companies. Removing investments is an example of this action.

ANSWER: **divestment** [or the fossil fuel **divestment** movement] <TB, Current Events>

13. For 10 points each, answer the following about religious education:

[10] Young Jews preparing for a bar or bat mitzvah might need to study the pronunciation of this liturgical language, since they are expected to deliver a *haftarah* portion and read from the Torah using this language.

ANSWER: **Hebrew**

[10] Muslim children may study at these religious schools. Many fundamentalist examples of these schools in Europe are financed by the Saudi government.

ANSWER: **madrassas**

[10] This private evangelical Christian school in Lynchburg, Virginia was founded by Jerry Falwell and requires that its undergraduates take three Bible study courses.

ANSWER: **Liberty** University <TB, Religion>

14. This dynasty established the Anxi Protectorate to govern the Tarim Basin. For 10 points each:

[10] Name this Chinese dynasty founded by Taizong which succeeded the Sui and preceded the Song. Chang'an and Luoyang were the two capitals of this dynasty, which was rocked to its core by the An Lushan Rebellion.

ANSWER: **Tang** Dynasty

[10] The Tang Dynasty faced many rebellions in this modern-day country, which had been conquered during the Sui Dynasty by Liu Fang. Lady Trieu and the Trung Sisters led earlier revolts against Chinese rule in this country.

ANSWER: Socialist Republic of **Vietnam**

[10] The Tang's western expansion was halted at the Battle of Talas, where they were defeated by this empire. This empire's capital of Baghdad, which contained the House of Wisdom, was destroyed by the Mongols in 1258.

ANSWER: **Abbasid** Caliphate <GP, World History>

15. Novels in this literary genre include Ann Radcliffe's *The Mysteries of Udolpho* and Clara Reeve's *The Old English Baron*. For 10 points each:

[10] Name this genre characterized by decaying castles, seemingly supernatural phenomena, and vulnerable female protagonists. Carson McCullers's work is associated with the "Southern" type of this genre.

ANSWER: **Gothic** [or "Southern **Gothic**"]

[10] The earliest Gothic novel is often said to be this book by Horace Walpole. This novel opens with Manfred's son Conrad being crushed by a giant helmet.

ANSWER: *The **Castle of Otranto**: A Gothic Story*

[10] Later Gothic fiction often featured these monsters, such as John Polidori's Lord Ruthven. Bram Stoker created one of these monsters named Dracula.

ANSWER: **vampires** <TB, Long Fiction>

16. Answer the following about some less famous crusades. For 10 points each:

[10] This country sent a fleet to Italy in 1481 to participate in a crusade against the Ottomans, but arrived after the Ottomans had already left. In 1147, crusaders helped this country's king Alfonso I capture its capital of Lisbon.

ANSWER: Kingdom of **Portugal**

[10] This French king was captured by the Mamluks during the Seventh Crusade and died of disease in Tunisia while participating in the Eighth Crusade. He was later canonized by the Catholic Church.

ANSWER: **Louis IX** [accept **Saint Louis**, prompt on **Louis**]

[10] In 1107, this country's king Sigurd the Crusader sailed to the Holy Land, leading this country's namesake crusade. Christianity came to this country through its patron saint, St. Olaf.

ANSWER: Kingdom of **Norway** [or the **Norwegian** Crusade] <GP, European/British History>

17. The first side of one album by this man features the songs “Freddie Freeloader” and “Blue in Green,” both of which exemplify the technique of modal jazz. For 10 points each:

[10] Name this jazz trumpet player, most famous for his album *Kind of Blue*.

ANSWER: Miles **Davis**

[10] Davis got his start playing in this man’s bebop quintet. This performer, who played a plastic saxophone during the *Jazz at Massey Hall* concert, developed the style of bebop along with Dizzy Gillespie.

ANSWER: Charlie **Parker**

[10] Davis pioneered this more laid-back style of bebop with his first album after leaving Parker’s quintet. The album, which features the song “Boplicity,” is titled *Birth of* [this style].

ANSWER: **cool** jazz [accept *Birth of the Cool*] <DB, Other Fine Arts>

18. This interaction is described by the theory of quantum chromodynamics. For 10 points each:

[10] Identify this fundamental interaction which binds together quarks and is mediated by the gluon.

ANSWER: the **strong** interaction [or the **strong** force; or the **strong** nuclear force]

[10] The residual form of the strong force is responsible for holding together these structures against the electrostatic repulsion between the protons of these structures. Electrons surround one of these structures in atoms.

ANSWER: atomic **nucleus** [or atomic **nuclei**]

[10] The residual strong force is mediated primarily by this group of three mesons. These mesons are the lightest mesons.

ANSWER: **pions** <GC, Physics>

19. Answer the following about some classic literary satires. For 10 points each:

[10] This Irishman wrote *A Tale of a Tub*, in which three brothers represent three branches of Christianity. He also wrote about the title physician’s voyages to Lilliput and Brobdingnag in *Gulliver’s Travels*.

ANSWER: Jonathan **Swift**

[10] This French author satirized an optimistic philosopher with a character who exclaims “we live in the best of all possible worlds!” That character created by this author contracts syphilis from the maid Paquette.

ANSWER: **Voltaire**

[10] This book by Petronius Arbiter is one of the earliest surviving examples of Menippean satire. This book includes a description of an obscenely opulent dinner given by Trimalchio.

ANSWER: **Satyricon** [or **Satyricon Liber**; or **Satyricea**] <TB, Long Fiction>

20. Ecosystems in this region include the Shark River slough and the Ten Thousand Islands. For 10 points each:

[10] Name this “River of Grass” that begins at Lake Okeechobee and drains into Florida Bay. Big Cypress National Preserve is adjacent to a national park in this region that is home to both crocodiles and alligators.

ANSWER: **Everglades** [accept **Everglades** National Park]

[10] A national park near the Everglades that contains the northernmost of the Florida Keys is named for this bay that separates Miami from Miami Beach. Stiltsville was built on this bay’s Safety Valve tidal flats.

ANSWER: **Biscayne** Bay

[10] This governor of Florida is best known for his attempts to drain the Everglades. He also names the county directly north of Miami-Dade whose seat is Fort Lauderdale.

ANSWER: Napoleon Bonaparte **Broward** <JG, Geography>