

Bulldog High School Academic Tournament 2018 (XXVII): After such knowledge, what forgiveness?

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Packet 6 Tossups

1. **During this war, one side was inspired in battle by the appearance of what looked like three suns in the sky. During its last battle, two brothers held back their forces until they could figure out who the winner would be. In this war, Louis XI of France suggested an alliance between Richard “Kingmaker” (*) Neville and Margaret of Anjou. The victor of this war crushed the rebellions of Lambert Simnel and Perkin Warbeck. The “Princes in the Tower” were imprisoned during this war, which ended with death of Richard III at Bosworth Field, allowing Henry VII Tudor to become king. For 10 points, name this 15th-century civil war between the Houses of York and Lancaster.**

ANSWER: Wars of the Roses [accept War of the Roses] <MK>

2. **In the Eastern Orthodox tradition, this holiday is followed by “Bright Week.” In many churches, a foot-washing ceremony is performed three days before this holiday. Tenebrae services are held in the days leading up to this holiday. In the U.K., the monarch hands out coins on Royal (*) Maundy, the Thursday before this “moveable feast.” A week before this holiday, many congregations bless palm fronds. The Passion is commemorated on the “Good” Friday before this holiday. The 40 days of Lent lead into—for 10 points—what holiday celebrating Jesus Christ’s resurrection?**

ANSWER: Easter [or Pascha] <MK>

3. **For an ideal dipole antenna, dividing this quantity by current-squared gives the radiation resistance. For an electromagnetic wave, the amount of this quantity per unit area is given by the Poynting vector, and in general its amount per unit area is given by intensity. For a purely resistive load, this quantity’s RMS value is exactly half its peak value. For a resistor, this quantity is equal to “ I (*) squared times R ” according to Joule’s heating law. This quantity equals current times voltage for electrical systems. In general, it is the time derivative of work. The amount of energy consumed per unit time is—for 10 points—what quantity measured in watts?**

ANSWER: power [prompt on flux, but do not accept or prompt on “electric flux” or “magnetic flux”] <SE>

4. **A poem by this author describes selling your “fine clothes” for “a dollar and a half.” In addition to “Hard Times,” he wrote a poem that ends by noting “the stars went out and so did the moon.” The speaker of another of his poems is sent “to eat in the kitchen / When company comes” but decides that tomorrow “They’ll see how beautiful I am.” The title (*) music of one of his poems is performed “down on Lenox Avenue.” One of his poetic speakers states that his “soul has grown deep like” the title places and describes having “bathed in the Euphrates when dawns were young.” For 10 points, name this Harlem Renaissance author of “The Weary Blues” and “The Negro Speaks of Rivers.”**

ANSWER: (James Mercer) Langston Hughes <CK>

5. **This material’s “tooth” varies in its “cold press” and “hot press” types, and it can sometimes feature a laid pattern. The “rag” type of this material is often heavily deckled. Types of this material are often differentiated by their “caliper” and “basis weight,” measured in pounds. Artworks made from this material can start with (*) bases like “kite” or “waterbomb.” Manufacturers of this material are identified by their watermarks. 3D objects are often made of this material by layering strips of it soaked in a flour-water mixture. Sizes like A1 describe—for 10 points—what material that’s folded to make origami?**

ANSWER: paper [accept stock or board; accept papier-mâché] <JR>

6. A section of troops mutinied against this man when they suspected that a car accident was an attempted assassination of his vice president, Mustafa Adrisi. In an early post, this man led an attack on the Kabaka's palace, forcing him into exile. That attack was ordered by a man who was this leader's predecessor *and* successor, (*) Milton Obote. After this man allowed a Palestinian-hijacked plane to land in his country, Benjamin Netanyahu's brother was killed during the Entebbe Raid. This man was overthrown after a failed 1979 attempt to annex part of Tanzania. For 10 points, name this so-called "Last King of Scotland," who was dictator of Uganda.

ANSWER: Idi Amin Dada <MK>

7. The time average of a quantity named for this adjective is multiplied by one-half in the virial theorem. A quantity of this kind equals negative delta-*G* over the number of moles times Faraday's constant. A multiple of the natural log of the reaction quotient is subtracted from a reference value of this kind in one form of the Nernst equation. The change in free energy upon removing or adding a single particle is a (*) "chemical" quantity named for this noun. For an electrochemical cell, a quantity with this name equals the difference for this value between the two half-cells. For 10 points, name the kind of energy that, in mechanics, is contrasted with kinetic energy.

ANSWER: potential energy [accept electrochemical potential energy; accept chemical potential; prompt on "E-naught"] <AF>

8. This event was the subject of *The World Restored*, Henry Kissinger's doctoral dissertation. The Treaty of Kiel [keel] was signed during this event. Just after this event, one of its participants created the monarchist, conservative Holy Alliance. This event disassembled the Confederation of the Rhine. This event, which often proceeded during (*) balls, put together the force that ended the Hundred Days. During this event, Talleyrand managed to achieve negotiating status comparable to that of Tsar Alexander I or Viscount Castlereagh. Klemens von Metternich chaired—for 10 points—what 1814-to-15 conference that determined the boundaries of post-Napoleonic Europe?

ANSWER: Congress of Vienna [or Wiener Kongress] <SPQR>

9. In a novel by this author, the protagonists pick the letters "SHOULDER KNOTS" out of their father's will to justify updating their coats. That novel by this man includes a "Digression on Madness." In another of his novels, the title character sails on the *Adventure* to the coast of America. The title character of that novel by him starts off on the (*) *Antelope* as a surgeon. One of his novels stars Peter, Martin, and Jack, who represent Calvin, Luther, and St. Peter. The title character of his most famous novel encounters a race of talking horses and steals the fleet of Blefuscu to aid the Lilliputians. For 10 points, what Irish satirist wrote *A Tale of a Tub*, *A Modest Proposal*, and *Gulliver's Travels*?

ANSWER: Jonathan Swift <MK>

10. A B-minor piece with this title includes Gavottes, Bourrées, and Passepieds ["pass"-PYAY], and ends with an "Echo." These pieces are divided into a slow section in dotted rhythm and a faster fugal section in a Baroque genre often dubbed "French." Three-movement Italian works in this genre called "Sinfonia" developed into the symphony. These pieces were replaced by (*) "Preludes" and "Introductions" by Richard Wagner [VAHG-nur]. A concert piece in this genre represents the Battle of Borodino by quoting the *Marseillaise* [mar-say-YEZ] and including real cannon shots. Operas are introduced by pieces in—for 10 points—what genre of Pyotr Ilyich Tchaikovsky's *The Year 1812*?

ANSWER: overtures [accept *1812 Overture*; accept French overtures; accept *Overture in the French Style* or *Ouverture nach Französischer Art*] <JR>

11. **This author created the elderly Mrs. Croft, who repeats that having an American flag on the moon is “Splendid!” The protagonist of a story by this author has an affair with a man who whispered to her in a Christian Science Mapparium, but breaks it off after the boy she’s babysitting defines the word he’d whispered. In a novel by this author of “The (*) Third and Final Continent”, a train accident inspires Ashoke to name his son after Nikolai Gogol. She included “Sexy” in a collection whose title story depicts Bobby being chased by monkeys after Mrs. Das spills puffed rice. *The Namesake* and *Interpreter of Maladies* are by—for 10 points—what Indian-American author?**

ANSWER: Jhumpa Lahiri [or Nilanjana Sudeshna Lahiri] <MK>

12. **This sculpture’s creator also painted a fresco above it depicting a dove amidst some pink clouds. Two wall panels surrounding this sculpture depict members of its donor family gesturing and talking as if they were in boxes at a theater. This sculpture is lit by a hidden window with yellow glass. The robe of this sculpture’s central figure billows around an unpolished marble cloud, which (*) her right foot has slipped off. It’s the centerpiece of the Cornaro Chapel. A grinning angel aims an arrow at this sculpture’s central woman, who is “lit up” by gilded rays behind this sculpture. For 10 points, name this sculpture by Gian Lorenzo Bernini, which depicts the vision of a Spanish saint.**

ANSWER: *The Ecstasy of Saint Theresa* [accept descriptive answers like *Saint Theresa in Ecstasy*; or *L’Estasi di Santa Teresa*] <JR>

13. **One of these objects named for a 19th-century mathematician is used to model the complex plane together with a “point at infinity.” In 2014, Thomas Hales proved that densest possible packing of these objects is given by the Kepler conjecture. In complex analysis, meromorphic functions are studied on one of these objects named for Bernhard (*) Riemann [REE-mahn]. Transforming from Cartesian coordinates to these objects’ namesake coordinates involves the Jacobian “ r -squared sine-theta,” where theta is the polar angle. They’re mapped to the plane by stereographic projection and they have surface area “ $4\pi r$ -squared.” For 10 points, name these 3D analogues of circles.**

ANSWER: spheres <JW>

14. **Early on, this colony was ruled by the martial law of Dale’s Code. In this colony, the servant John Punch was sentenced to a lifetime of slavery after trying to escape his master. Chief Cornstalk was defeated in this colony at the Battle of Point Pleasant. A governor of this colony offered freedom to any slave who fought for the British in his 1775 (*) Proclamation. William Berkeley and Lord Dunmore governed this colony, whose capital was burnt down in 1676 by Nathaniel Bacon. Baron De La Warr saved it from the “Starving Time” before it fought three wars with Powhatan’s Confederacy. John Rolfe introduced tobacco to—for 10 points—what colony founded at Jamestown?**

ANSWER: Virginia Colony [prompt on Jamestown until it’s mentioned] <MK>

15. **Book 5 of a novel from this century describes a girl named Sophie and claims that “the whole education of women ought to be relative to men,” while men’s education ought to help them stay “natural.” A political manifesto from this century was rewritten from a feminist standpoint by (*) Olympe de Gouges [oh-“LAMP” duh GOOZH]. In this century, *A Vindication of the Rights of Woman* was written by Mary Wollstonecraft in response to the sexist ideas on education put forth in the novel-treatise *Émile*, which was published alongside *The Social Contract* in this century. For 10 points, name this century when Catherine the Great exchanged letters with Voltaire.**

ANSWER: 18th century [or 1700s] <JR>

16. UvrD can initiate this process in the presence of AP sites in the “translesion” form of this process. An enzyme central to this process produces the Klenow fragment when cleaved by subtilisin. The BER and NER pathways use glycosylases and endonucleases to correct errors in this process. The product of this process, which resembles a trombone, is reconfigured by (*) topoisomerases. This process takes place at a namesake “fork.” During this process, which occurs during S phase, Okazaki fragments form on the lagging end, while polymerases add nucleotides at the 3-prime end of DNA. For 10 points, name this process in which genetic material is duplicated.

ANSWER: DNA **replication** [prompt on answers like “DNA synthesis”] <AF>

17. Many of this author’s plays were first translated into English by his longtime friend Eric Bentley. In one of his plays, a chaplain discusses his role as “pastor of souls” with a cook named Mr. Lamb. One of his title characters plays with the red high-heeled boots of the prostitute Yvette. This Marxist advocated distancing the audience via the “alienation effect,” as part of his concept of (*) “epic theater.” One of his title characters gets her nickname from safely moving bread through a war-torn city during the Thirty Years’ War, which kills her children Katrin, Eilif, and Swiss Cheese. For 10 points, name this 20th-century German author of *Mother Courage and Her Children*.

ANSWER: Bertolt **Brecht** [or Eugen Berthold Friedrich **Brecht**] <MK>

18. The opening synth riff of this artist’s first number-one hit almost copies the openings of both “Sugar Pie, Honey Bunch” and “Billie Jean,” which had come out two years earlier. This artist sings “If they don’t give me proper credit / I just walk away” in a song that claims “the boy with the cold hard cash / Is always Mister Right.” In another song, this artist describes feeling “shiny and new” and (*) “touched for the very first time.” This singer recites names like “Greta Garbo, and Monroe / Deitrich and DiMaggio” in the song “Vogue.” For 10 points, name this singer who worked with Justin Timberlake on “4 Minutes,” 35 years after hits like “Material Girl” and “Like a Virgin.”

ANSWER: **Madonna** [or Madonna Louise **Ciccone**] <JR>

19. This mountain range is home to a bright orange bird called its namesake “cock-of-the-rock.” Most of the world’s lithium reserves are found in a massive salt flat in this mountain range. A people in this mountain range was organized in extended family groups called *ayllu*. This mountain range includes the farthest point on Earth’s surface from its (*) center. These mountains, which are formed by the subduction of the Nazca Plate, are home to Lake Titicaca, and they end in Tierra del Fuego. Machu Picchu was found in—for 10 points—what mountain range that runs along the western side of South America?

ANSWER: **Andes** Mountains [or **Andean** cock-of-the-rock]

20. Because this god and his children hate each other, he hides them all inside of his mother’s body, which causes her to become congested and moan in agony. According to the *Works and Days*, this god’s son is the ruler of the Golden Age. Orphic texts strangely name Aether [EE-thurr] as the father of this deity, who is the Greek analogue of the Roman god (*) Caelus [SEE-luhss]. The blood of this deity blisters into the Me-li-ae [MEH-lee-AY], or hazel nymphs, as well as into the Furies. The goddess Aphro-dite foams out of this god’s genitals after he’s castrated by the sickle of his jealous son Cronus. For 10 points, name this primordial Greek god of the sky.

ANSWER: **Uranus** [or **Ouranos**] <SPQR>

Tiebreaker

21. This adjective titles a 2006 novel in which Olanna sleeps with Richard to get revenge for her boyfriend Odenigbo's infidelity just before the Biafran War. This adjective titles a story in which the narrator finds a "smooch" on the wall that fits her shoulder perfectly. In that story titled for this adjective, the narrator throws a key "down by the front steps," where it lands under a plantain leaf. In that story, the narrator begins to "smell" this (*) color by moonlight before biting her chained-down bed and crawling around the floor. A Charlotte Perkins Gilman narrator hallucinates a woman trapped in wallpaper of—for 10 points—what title colour?
ANSWER: yellow [accept *Half of a Yellow Sun* or "The Yellow Wallpaper"] <MK/JR>

Bonuses

1. For 10 points each—answer the following about the constant intrusions of *Hera* into the life of *Heracles*:

[10] When Hera inflicts Heracles with a fit of madness, he comes to his senses to find that, in his anger, he has performed this action. As penance for this action, Heracles performs his twelve labours; a description is fine.

ANSWER: he **murders his children** [or obvious equivalents]

[10] Heracles's death is engineered by one of these half-man, half-horse creatures descended from a likeness of Hera. Except for the wise Chiron, these beasts are all very uncivilised.

ANSWER: **centaur** [or **hippo-centaur**]

[10] After another fit of madness, Heracles spends three years as a slave to this queen of Lydia when he murders his best friend Iphitus and kills not just the men of Iphitus's family, but the women and children, too.

ANSWER: **Omphale** [AHM-fah-LAY] <SPQR>

2. For 10 points each—answer the following about California's 2016 Senate election:

[10] The election was won by this Jamaican-Indian-American woman, the state's former attorney general.

ANSWER: Kamala (Devi) **Harris**

[10] In the election, Kamala Harris defeated fellow Democrat Loretta Sanchez, because California uses *this* kind of primary, in which the top two finishers advance to the general election, regardless of party.

ANSWER: **jungle** primary [accept **Louisiana** primary; prompt on **blanket** primary]

[10] At the end of a debate, Loretta Sanchez infamously performed *this* action, which looks sort of like sneezing into one's elbow.

ANSWER: **dabbing** <SCW>

3. The introduction of this character marked a shift away from human villains in supernatural disguises to actual ghosts and other spirits. For 10 points each:

[10] Name this comically small Great Dane, known for catchphrases like "Lemme at em!" and "Puppy Power!" After he was introduced into his uncle's namesake show, Fred, Daphne, and Velma were increasingly sidelined.

ANSWER: **Scrappy-Doo** [prompt on partial answer; do **not** accept or prompt on "Scooby Doo"]

[10] Scrappy-Doo was created by *this* company in order to boost the ratings of its *Scooby-Doo* franchise. This now-defunct company also created *The Jetsons* and *The Smurfs*.

ANSWER: **Hanna-Barbera** Productions [accept **H-B** Production Company, **H-B** Enterprises, or **Hanna-Barbera** Cartoons]

[10] In 2000, the Hanna-Barbera library and other vintage cartoons like *Looney Tunes* were moved to Boomerang, a spin-off of this TV channel. Shows currently airing on this network include *Teen Titans Go!* and *Adventure Time*.

ANSWER: **Cartoon** Network [accept **CN**] <MK>

4. In Canto 9 of this epic, Vasco da Gama escapes the Muslims and lands on the "Isle of Love," where he feasts with Nereids. For 10 points each:

[10] Name this poem by Luís de Camões, which is considered the national epic of Portugal.

ANSWER: *The **Lusiads*** [or ***Os Lusíadas***]

[10] This sea-deity, who has become Vasco da Gama's lover, prophesies the future of Portuguese conquest in Book 10 of *The Lusiads*. This woman turns Aesacus into a diving bird in Ovid's *Metamorphoses*.

ANSWER: **Tethys**

[10] *The Lusiads* were modelled on this epic by Virgil, whose title character causes Dido to commit suicide by leaving Carthage for Italy.

ANSWER: *The **Aeneid*** [or ***Aeneis***] <SPQR>

5. These structures contain the papillary muscles. For 10 points each:

[10] Name these structures that pump blood in the heart. The mitral valve connects the left one of them to the left atrium.

ANSWER: **ventricles**

[10] The mitral valve can become calcified due to the immune hypersensitivity caused by *this* condition, which results from infection with *Streptococcus pyogenes*. It also causes a namesake joint pain.

ANSWER: **rheumatic fever** [accept **rheumatic heart disease**; prompt on RF]

[10] The ventricles are separated from each other by a structure with *this* name. The two nostrils are separated by one of these structures, which can become “deviated” by trauma.

ANSWER: **septum** [or **septa**] <HK>

6. This essay claims that “envy is ignorance” and “imitation is suicide.” For 10 points each:

[10] Name this 1841 Transcendentalist essay, the origin of the quote, “A foolish consistency is the hobgoblin of little minds.” It also states “Trust thyself: every heart vibrates to that iron string.”

ANSWER: “**Self-Reliance**”

[10] “Self-Reliance” is an essay by this American philosopher, a major influence on Walt Whitman and Henry David Thoreau.

ANSWER: Ralph Waldo **Emerson**

[10] This other essay by Emerson, which largely describes his disillusionment with the title concept, is the source of the line “We live among surfaces, and the true art of life is to skate well on them.”

ANSWER: “**Experience**” <JW>

7. An effigy of Andrew Oliver was hung on the “Liberty Tree” to protest this law. For 10 points each:

[10] Name this 1765 parliamentary act that taxed printed materials in the American colonies by requiring them to have the namesake official imprint.

ANSWER: **Stamp Act**

[10] The Loyal Nine, a group formed to protest the Stamp Act, inspired this man to found the Sons of Liberty. He helped organise the Boston Tea Party.

ANSWER: **Samuel Adams** [prompt on just **Adams**]

[10] Samuel Adams was a good friend of this other patriot, who coined the famous slogan “Taxation without representation is tyranny.” His sister Mercy wrote the first major history of the American Revolution.

ANSWER: James **Otis** Jr. <MK>

8. This diagram’s three arms are labeled “S,” “SB,” and “E,” and are connected by a node marked “S-zero.” For 10 points each:

[10] Name this diagram used for classifying certain objects as “elliptical,” “lenticular,” “spiral,” or “barred spiral.”

ANSWER: Hubble **tuning fork** diagram [or **Hubble sequence**; prompt on **Hubble** diagram]

[10] Hubble’s tuning fork diagram enumerates the possible shapes of these collections of hundreds of billions of stars. The nearest one to our own is called Andromeda.

ANSWER: **galaxies** [or **galaxy**]

[10] Galaxies are often orbited by the “globular” type of these smaller collections of stars. This term also describes a collection of galaxies larger than a group, such as the Virgo one to which the Milky Way belongs.

ANSWER: **clusters** [accept globular **clusters** or galaxy **clusters** or galaxy super**clusters**] <SE>

9. The subject of this portrait was disturbed by its extreme realism and supposedly exclaimed “All too true!” For 10 points each:

[10] Name this mid 17th-century painting of an enthroned pope clad in red. It was made around the time that its artist freed his slave and fellow painter Juan de Pareja.

ANSWER: *Portrait of **Innocent X***

[10] That portrait was made by Diego Velázquez, a painter from this country.

ANSWER: Kingdom of **Spain** [or Reino de **España**]

[10] Velázquez depicted himself in the act of painting in *Las Meninas*, where he wears a black outfit with *this* symbol on his chest. A description is fine.

ANSWER: a **red cross** [prompt on just **cross** by asking “What color is it?”; accept any answer indicating the **Cross** of the order of **Saint James** or **Santiago**] <JW>

10. In *Kafka on the Shore*, Nakata is able to communicate with these creatures after the Rice Bowl Hill incident. For 10 points each:

[10] Name these animals. The plot of *The Wind-Up Bird Chronicle* is set in motion when Toru Okada loses one of these animals.

ANSWER: **cats**

[10] *Kafka on the Shore* and *The Wind-Up Bird Chronicle* were both written by this contemporary novelist.

ANSWER: Haruki **Murakami** [accept names in either order]

[10] The title of Murakami’s *Norwegian Wood* comes from the song that Watanabe hears playing as he lands in *this* country. Erich Maria Remarque, an author from this country, wrote *All Quiet on the Western Front*.

ANSWER: **Germany** [or **Deutschland**; accept **West Germany**] <CK>

11. The name of this instrument possibly derives from a corruption of its original German name, which was meant to describe it as “angelic.” For 10 points each:

[10] Name this double-reed instrument that’s pitched between an oboe and a bassoon.

ANSWER: **English horn** [or **cor anglais**; prompt on **horn**]

[10] The English horn first plays the main theme of this 1893 symphony’s second movement “Largo.” This symphony’s first movement quotes “Swing Low, Sweet Chariot.”

ANSWER: Antonín Dvořák’s **New World** Symphony [or “**From the New World**” or **Dvořák**’s Symphony No. **9**; accept any answer indicating **Dvořák**’s **ninth** symphony, but prompt on just **Symphony No. 9** or similar answers]

[10] Another English horn solo appears in the tone poem “The Swan of Tuonela,” which is part of this suite by Jean Sibelius that, like many of his works, is based on stories from Finnish mythology.

ANSWER: **Lemminkäinen** Suite, Opus 22 [accept **Four Legends from the Kalevala**] <JW>

12. This playwright was almost certainly stabbed to death at the age of 29 by Ingram Frizer. For 10 points each:

[10] Name this Elizabethan author of the two-part play *Tamburlaine the Great*. In one of his plays, the title character asks “Was this the face that launch’d a thousand ships?”

ANSWER: Christopher **Marlowe** [or Kit **Marlowe**]

[10] In a Marlowe play, Barabas, a Maltese member of *this* religious group, falls into his own trap for a Turkish prince. That play inspired Shakespeare to create one of these people named Shylock in *The Merchant of Venice*.

ANSWER: **Jews** [accept clear equivalents; accept *The Jew of Malta*]

[10] A Marlowe poem titled for a member of this profession begins with the line “Come live with me and be my love.” Edmund Spenser wrote a “Calender” titled for members of this profession.

ANSWER: **shepherd** [accept reasonable equivalents like **herdsman**; accept “The **Passionate Shepherd to his Love**” or *The Shepherd’s Calender*] <MK>

13. Herodotus claims that Queen Artemisia of Halicarnassus tried to persuade Xerxes to fight this battle at a more favorable location. For 10 points each:

[10] Name this naval battle of 480 B.C., in which the Greeks lured the Persian forces through a narrow strait and destroyed nearly three hundred ships. It followed on the battles of Thermopylae and Artemisium.

ANSWER: Battle of **Salamis**

[10] The victory at Salamis was largely owed to Themistocles, who was later ostracized from *this* Attic city, where Thucydides was from. This city's democracy was founded by people like Solon and Pericles.

ANSWER: **Athens**

[10] The Athenians voted for ostracism using *this* kind of material.

ANSWER: **pottery** [accept **ceramics**; accept **shards** or **pieces** of pottery] <SPQR>

14. These procedures are often conducted using a burette with a stopcock. For 10 points each:

[10] Name these procedures in which an acid or base is slowly added to a base or acid, producing a "curve" that tells you the acid-dissociation constant of a solution.

ANSWER: **titrations**

[10] In a titration, the solution's indicator changes color at *this* point, which usually sees a rapid change in pH.

ANSWER: **endpoint** [do **not** accept or prompt on "equivalence point"]

[10] You can read the pKa of an acid directly off of a titration curve by seeing its pH at what volume of added base?

ANSWER: one-**half** the volume at the **equivalence point** [or **half-neutralization**] <JR>

15. Knife-shaped money called *daobi* was widely circulated under this dynasty. For 10 points each:

[10] Name this longest-lasting Chinese dynasty, which lost most of its power during the Warring States period. It followed the Shang.

ANSWER: **Zhou** dynasty

[10] This name is given to the era preceding the Warring States period, during which royal authority began to decline. It takes its poetic name from a set of *Annals* traditionally attributed to Confucius.

ANSWER: **Spring and Autumn** Period [or **Chunqiu** Shidai]

[10] The veracity of the *Spring and Autumn Annals* was denied by this radical reformer of 11th century China, who feuded with the great historian Sima Guang.

ANSWER: **Wang Anshi** [prompt on just **Wang**] <JW>

16. This man wrote his *Petite messe solennelle* and a few other works after retiring from opera composition at the age of 37. For 10 points each:

[10] Name this *bel canto* composer of *The Italian Girl in Algiers* and *La Cenerentola* [lah cheh-neh-REHN-toh-lah]. His arias include "Una voce poco fa" [oo-nah VOH-chay poh-koh FAH] and "Largo al factotum."

ANSWER: Gioachino (Antonio) **Rossini**

[10] Those arias come from *The Barber of Seville*, whose title character is this man. His *Marriage* titles an opera by Mozart.

ANSWER: **Figaro** [accept *The Marriage of Figaro* or *Le Nozze di Figaro*]

[10] Rossini's *William Tell* is considered a progenitor of *this* large-scale genre of French opera, exemplified by the works of Giacomo Meyerbeer. Wagner's early works like *Rienzi* were heavily influenced by this genre.

ANSWER: **grand opera** [prompt on partial answer] <JW>

17. A character in this story tells its antagonist “Why you're one of my babies. You’re one of my own children!” For 10 points each:

[10] Name this story in which Bailey and her family come across the Misfit.

ANSWER: “A **Good Man Is Hard to Find**”

[10] This Southern Gothic author, who often included elements of her Catholic faith in her stories, wrote “A Good Man Is Hard to Find.” Her novels include *The Violent Bear It Away* and *Wise Blood*.

ANSWER: (Mary) Flannery **O’Connor**

[10] In “Good Country People”, O’Connor wrote about Hulga Hopewell, who changes her name from Joy to piss off her mother. At the story’s end, purported Bible salesman Manley Pointer steals this object from Hulga.

ANSWER: her **prosthetic leg** [prompt on partial answer; accept any answer that indicates an **artificial** or **replacement leg**] <MK>

18. This experiment’s quantum interpretation leads to bizarre consequences like the “quantum eraser.” For 10 points each:

[10] Name this experiment, first performed in 1801, in which a single beam of light passing through two sources was shown to interfere with itself.

ANSWER: Young’s **double-slit** experiment [accept **Young**’s experiment]

[10] The interference observed in Young’s experiment was an example of light acting as one of these oscillating disturbances. Light can be seen as either a particle or one of these things according to a namesake “duality.”

ANSWER: **waves**

[10] Electrons were shown to act as waves too in this experiment conducted in the 1920s. The diffraction pattern observed in this experiment confirmed the de Broglie matter-wave hypothesis.

ANSWER: **Davisson–Germer** experiment <SE>

19. The possibility of this state is the third of the Four Noble Truths. For 10 points each:

[10] Name this release from *dukkha* or worldly suffering. Its first stage is often labelled a form of “enlightenment.”

ANSWER: **nirvana**

[10] This is the term for a person who forgoes the second stage of nirvana. These people are often contrasted with *arhats*.

ANSWER: **bodhisattva**

[10] While Mahayana Buddhists aspire to become bodhisattvas, *this* kind of Buddhist instead emphasizes becoming an *arhat*. This term, which encompasses Theravada, is seen as slightly offensive, since it means “lesser vehicle.”

ANSWER: **Hinayana** <JR>

20. These people were largely wiped out during the Roman invasion of Britain. For 10 points each:

[10] Name this class of people, whom Tacitus describes dancing on the island of Mona in his *Annals*. These people were the soothsayers in the ancient Celtic religion.

ANSWER: **druids**

[10] In 1640, John Aubrey declared this monument in Britain the work of druids. This monument is comprised of a number of standing blocks in the area of Salisbury.

ANSWER: **Stonhenge**

[10] Another important archaeological site in Britain is this 6th-century find rich in jewels and other luxury goods. It’s the likely burial place of King Raedwald.

ANSWER: **Sutton Hoo** <SPQR>

Tiebreaker

21. One of this man's characters drowns a crowd in urine after climbing the tower of Notre Dame. For 10 points each:

[10] Name this French author known for a series of truly filthy novels about two giants.

ANSWER: François **Rabelais**

[10] Rabelais wrote *Gargantua and Pantagruel* in *this* century, in which Michel de Montaigne also wrote. Blaise Pascal and René Descartes wrote in the century *after* this one.

ANSWER: **16th** century [or **1500s**; or *quinzième siècle*]

[10] Rabelais created a hilariously incompetent character named Perrin Dandin with *this* profession. In a 20th-century play, Azdak temporarily becomes one of these people.

ANSWER: **judge** [accept synonyms like **justice**, **magistrate**, etc.] (The play is *The Caucasian Chalk Circle*.) <JR>