

# Boilermaker Spring Novice

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Packet 6: She took the midnight train going anywhere

## TOSSUPS

1. **Directly inspired by this person, Elizabeth Warren and Bob Casey wrote a letter to the Department of Health and Human Services to reorganize their federal data collection. Gavin Newsom signed a California law named after this person which tightened loopholes abused by fiduciaries. The ACLU advocated for overturning legalized sterilization after this person revealed in a 24 minute court testimony that she was not allowed to have her (\*) IUD removed. The *New York Times* documentary titled *Framing [This Person]* records the abuse from this person's father Jamie and brought media attention to conservatorship law. For 10 points, fans galvanized to “#Free” (“hashtag free”) what pop singer of “Toxic” and “...Baby one more time?”**

**ANSWER: Britney Spears** [accept either underlined portion, accept #FreeBritney, accept *Framing Britney*, accept Britney bill]

<PQ, The World - Current Events> [Ed. LM]

2. **Upon the death of their beloved dog Boatswain, (“*bo-sin*”), this poet wrote “To mark a friend's remains these stones arise; I never knew but one — and here he lies,” in their “Epitaph to a Dog.” Lady Caroline Lamb described this poet as “mad, bad, and dangerous to know” while having an affair with them. Two other affairs of this poet resulted in two illegitimate children, in addition to this poet's daughter, Ada (\*) Lovelace. This author used moody, self-agonizing heroes in works like *Childe* (“child”) *Harold's Pilgrimage*, which he released while lodging with Percy and Mary Shelley. In a poem, this author wrote that “all that's best of dark and bright / Meet in her aspect and her eyes.” For ten points, name this promiscuous British poet of “She Walks in Beauty.”**

**ANSWER: Lord Byron** [or George Gordon Byron, 6th Baron Byron]

<BD, Literature - Poetry> [Ed. PS]

3. **Mexican composer Juventino (“*hoo-ven-ti-no*”) Rosas's best-known work is in this genre and named “Sobre (“*so-bray*”) las Olas,” or “Over the Waves.” One composer included a virtuoso zither in a piece in this genre named “Tales from the” woods of the composer's city. Émile Waldteufel (“*vald-toy-ful*”) composed a wintertime classic titled “Skater's [piece in this genre].” A work in this genre named for the (\*) “Kaiser” is one of many composed in the Viennese variant of this genre. Johann Strauss II was dubbed the “King” of this genre for his compositions, including one named for the Blue Danube. For 10 points, name this triplet-meter genre that accompanies a gliding paired ballroom dance.**

**ANSWER: waltz**

<PQ, Fine Arts - Classical Music> [Ed. QP]

4. **Viruses transferred to humans from these creatures include the Marburg virus and Middle Eastern respiratory syndrome, or MERS. White nose syndrome has led to a substantial population decrease of these creatures in the US and Canada. A virus central to an early 2000s (\*) SARS outbreak is strongly hypothesized to have originated from the “horseshoe” variety of these creatures in Yunnan. The Nipah and Hendra viruses originated from one of these creatures nicknamed “flying foxes.” The chitinous excrement of these creatures proved much more difficult to mine than the seabird counterpart due to being in deep cave systems. For 10 points, Rabies can be transmitted via bites from the “vampire” type of what flying mammals?**

**ANSWER: bats [or Chiroptera]**

<LM, Science - Biology> [Ed. JF]

5. **In a temple built by this civilization, primeval waters are represented by 134 columns in the Great Hypostyle Hall. This civilization built large flat-roofed brick tombs known as *mastabas*. The Saqqara necropolis built by this civilization contains the tomb of Djoser. (“joe-zhur”). Greek mercenaries left graffiti on the left leg of a colossal statue at the entrance of a temple carved out from rock by this civilization which was relocated during the construction of the (\*) Aswan Dam. Large white limestone blocks were transported down a river to build a massive structure that contains the Robber’s Tunnel, now used as a tourist entrance, and the King’s Chamber. For 10 points, name this civilization that built the Pyramids of Giza.**

**ANSWER: ancient Egypt [accept any answer referring to the ancient Egyptians]**

<LM, History - Other History> [Ed. LM]

6. **Arthur Robinson, the modern father of this discipline in academia, established one of its first departments at the University of Wisconsin-Madison. The early Majorcan (“my-yorkin”) school in this discipline innovated the creation of Portolan (“por-to-lin”) charts using a rigid network of rhumb lines. In order to catch plagiarizers, professionals in this discipline would create fictional (\*) “paper towns.” A dictum by Alfred Korzybski claims the works created by this discipline “[are] not the territory.” Modern critics have pointed out exaggeration of Northern countries seen in a common projection used in this discipline named for Gerardus Mercator. For 10 points, name this discipline of making maps.**

**ANSWER: cartography [accept map making before mention, prompt on any field of geography]**

<PQ, Social Science - Other> [Ed. SB]

7. **This modern-day country’s forces hurled rocks from above onto Leopold of Austria’s army during the 1315 Battle of Morgarten, which may have been the first use of halberds in battle. The word “nostalgia” was coined in the 17th century to describe the homesickness felt by soldiers from this country stationed in the plains of France and Italy. During the 1527 Sack of Rome, a group of soldiers from this country made their last stand before escaping through a secret tunnel to Castel Sant Angelo. A (\*) “guard” from this country serves as the Pope’s protective force. The 1815 Treaty of Paris affirmed this European country’s neutrality, which it notably exercised during the World Wars. For 10 points, name this country whose army names a multi-tooled knife.**

**ANSWER: Switzerland [or Swiss Confederation; accept Confoederatio Helvetica or Helvetia]**

<LM, History - European History>

8. **A man in this story dreams of buying a gun to shoot larks on the Nanterre plains. Henry James wrote a reversal of this short story titled “Paste.” This story opens by describing a woman who “was born into a family of clerks” as if it was “a mistake of destiny.” The central couple in this story is dumbfounded after realizing they had not written down the number of a cab they took from a ministerial (\*) ball. This short story ends after fast-forwarding 10 years, when a chance encounter with Madame Forestier (“forest-yay”) reveals the title object was only worth at most 500 francs. For 10 points, name this short story by Guy de Maupassant (“ghee de mo-pas-sohn”) about a piece of fake diamond jewelry.**

**ANSWER: "The Necklace" [or The Diamond Necklace"; or "La Parure"]**

<PQ, Literature – Short Stories/Other> [Ed. SB]

9. NASA's OSIRIS-REx mission is studying the effect of the Yarkovsky effect on one of these objects named **Bennu**. JAXA developed the MINERVA rovers to retrieve samples from these objects on the *Hayabusa* missions. These objects are classified in the Aten or Apollo groups based on where these objects cross orbits. **Orbital resonance causes a lack of these objects in (\*) Kirkwood gaps.** The *Dawn* spacecraft's first target was one of these objects named Vesta. When these objects are locked into the L4 or L5 Lagrange points of planets like Jupiter, they are called trojans. These objects make up the majority of near-Earth objects that are at risk of impacting Earth. For 10 points, name these objects that form a namesake "belt" between Mars and Jupiter.

**ANSWER: asteroids**

<QP, Science - Other Science (Astronomy)> [Ed. JF]

10. **This show's writers named a French character after their collective obsession with LaCroix ("la-croy") sparkling water. Several songs by the Vitamin String Quartet appear in this show's soundtrack, which includes chamber string covers of contemporary pop songs. A bachelor played by Regé-Jean ("rej-ay john") Page steals a secret kiss in a hedge maze during a fête ("fett") in the (\*) British social season in this show.** This show is based on a series of romance novels by Julia Quinn. The Featherington sisters debut into society in this show, which is narrated by the gossip columnist Lady Whistledown. For 10 points, name this Netflix show in which Simon and Daphne pretend to court each other.

**ANSWER: Bridgerton**

<PQ, Pop Culture - TV> [Ed. SB]

11. *Note to players: Two answers are required.*

**One of these two deities kills a giant who was building a wall with the horse Svadilfari ("sfa-dil-far-ree") as part of a deal made with the other deity. Roskva and her brother accompany these two deities on a journey where they both inadvertently spend the night in a massive glove. To retrieve a stolen possession from a giant, one of these deities dresses as (\*) Freya while the other disguises himself as his maid. The spear Gungnir is forged in a contest started after one of these deities cuts the hair of the other's wife, Sif. One of these deities disguised as a gadfly stings the dwarf Brokk, causing the other deity to have a short-handled hammer.** For 10 points, name these two often quarreling Norse gods, one a god of thunder and the other a trickster.

**ANSWER: Thor and Loki**

<LM, Beliefs - Stories> [Ed. LM]

12. **Michel Foucault ("michelle foo-ko") analyzed two philosophical systems, one of which is "discursive formations," in a book titled for this concept's archaeology. Robert Nozick developed his truth-tracking theory to analyze this concept, one definition of which was outlined in the *Theaetetus*. ("thee-a-tee-tis"). Edmund Gettier developed a namesake set of problems to refute Plato's definition of this concept as (\*) "justified true belief." Types of this concept can be distinguished based on whether it is *a priori* or *a posteriori*. In a Latin maxim, Francis Bacon equated power with this concept. Epistemology is the study of, for 10 points, what concept, that is gained by learning?**

**ANSWER: knowledge** [accept "*The Archaeology of Knowledge*" or "**knowledge** is power"; prompt on justified true belief until read]

<SM, Social Sciences - Philosophy> [Ed. QP]

## HALFTIME

13. This state is home to Mill Ends Park, the smallest park in the world, which consists of a single tree. Blue-green claystone forms the Turtle Cove Assemblage in this state's John Day Fossil Beds. An annual, months-long Shakespeare festival is economically crucial to this state's city of Ashland. This state is home to the deepest lake in the United States, (\*) Crater Lake. This state's city of Eugene hosts a university whose athletic teams are called the Ducks. Players headed to this state's Willamette ("wil-lam-it") Valley in an old computer game may die of dysentery. For 10 points, name this northwestern state whose largest city is Portland.

ANSWER: Oregon [accept *The Oregon Trail*]

<VS, The World - Geography> [Ed. QP]

14. In the background of a painting by this artist originally titled *Profane Love*, three *putti* distribute robes among seven writhing nude figures. That painting by this artist, whose frame is dominated by St. John on the left side, is *Opening of the Fifth Seal*. A black, stormy sky dwarfs the Alcántara Bridge and the Castle of San Servando in one of this artist's two surviving landscapes. A row of noblemen's heads divide this (\*)

Mannerist's most famous painting into upper and lower halves, where Jesus, Mary, and John the Baptist look down as Saints Augustine and Stephen hold the armored corpse of the title nobleman. For 10 points, name this Spanish painter of *View of Toledo* and *The Burial of the Count of Orgaz*, whose nickname reflects that he was born on Crete.

ANSWER: El Greco [or Doménikos Theotokópoulos]

<QP, Fine Arts - Painting and Sculpture> [Ed. SB]

15. This quantity is proportional to temperature cubed at lower temperatures and is approximately equal to three times the ideal gas constant at higher temperatures according to the Debye ("de-bi") Model. The adiabatic index is defined as the ratio of two forms of this quantity. This quantity equals three-halves the ideal gas constant for a monatomic ideal gas at constant volume. The size of a (\*) calorie is equal to this quantity for water at 4.814 Joules per gram. The heat transferred to or from an object is equal to mass times change in temperature times this quantity. For 10 points, name this property denoted  $c$  that describes the amount of heat needed to change a material's temperature.

ANSWER: specific heat capacity [accept heat capacity, prompt on  $c$ -sub-p or  $c$ -sub-v (or specific heat capacity at constant pressure/volume) before " $c$ " with be less specific]

<LM, Science - Chemistry> [Ed. JF]

16. Bill Kauffman criticized a novel by this author for its "libelous" depiction of Charles Lindbergh, and for using FDR's emergency re-election as a *deus ex machina*. In a novel by this author, a professor who loses his job after accidentally using a racial slur later reveals to his neighbor that he is a white-passing Black man. Meredith bombs the Old Rimrock post office and disrupts (\*) Swede Levov's idyllic American life in the first of a trilogy narrated by this author's character, Nathan Zuckerman. In a controversial comedy by this author, the title character reveals to Dr. Spielvogel that his family ate a piece of liver that he had earlier used sexually. For 10 points, name this author of *The Human Stain*, *American Pastoral*, and *Portnoy's Complaint*.

ANSWER: Philip Roth [or Philip Milton Roth]

<SB, Literature - Novels> [Ed. SB]

17. Helen Hunt Jackson lambasted the treatment of this ethnic group in her book *A Century of Dishonor*. The Peigan Massacre and Modoc War strained Ulysses S. Grant's "Peace Policy" towards this ethnic group. The Curtis Act incorporated additional members of this ethnic group under the Dawes Act. Elizabeth "Libbie" Bacon fought to preserve the legacy of her husband, a Major (\*) General who was killed by this ethnic group. A leader from this ethnic group named Wovoka devised a practice to restore peace known as the Ghost Dance. The 7th Cavalry Regiment opened fire on people of this ethnic group near Wounded Knee Creek. For 10 points, name this broad ethnic group whose tribes include the Apache and Lakota.

ANSWER: Native American [or American Indian, prompt on specific Native American tribes like Cherokee with "what broader ethnic group are they a part of?"]  
<LM, History - American History> [ed. LM]

18. After the government funded tour of "jazz ambassadors," this bandleader released a series of albums titled *Jazz Impressions* of places like *Eurasia* and *Japan*. During popular performances, this bandleader and his players would leave after their solo until only the drummer Joe Morello remained. The album *Jazz Goes To College* was recorded during this man's popular college tour he made alongside frequent collaborator (\*) Paul Desmond. The first jazz album to sell over a million copies was created by this man's "Quartet." This man's jazz standard "Blue Rondo à la Turk" was released on his album *Time Out*, whose most popular piece is named for 5/4 time signature. For ten points, name this white jazz pianist whose band performed the single "Take Five."

ANSWER: Dave Brubeck [accept Dave Brubeck Quartet]  
<VS, Fine Arts - Other Auditory> [ed. PQ]

19. In a play by this author, the corrupt politician Wally O'Hara causes Sydney Brunstein to become disillusioned by politics. In a different play by this author, a man stands on a table shouting "FLAMING SPEAR! HOT DAMN!" while his sister shouts "OCOMOGOSIAY." ("*oh-ko-go-mo-see-ay*"). That woman in a play by this author is proposed to by man who claims she's (\*) mutilated her hair by straightening it, Joseph Asagai. In that play by this author, Willy Harris swindles the protagonist by convincing him to invest in a liquor store. In a play by this author Mama spends life insurance on a house in a white neighborhood, Clybourne Park, before Karl Lindner attempts to pay her to leave. For 10 points, name this author who created the Younger family in her play *A Raisin in the Sun*.

ANSWER: Lorraine Vivian Hansberry  
<AP, Literature - Drama> [Ed. PS]

20. The first phase of this country's war for independence was characterized by irregular forces known as *Kuva-yi Milliye*. Six points for this country's independence known as the National Pact were laid out by a future president whose ideology was known as "Six Arrows." This country's current government moved the capital 300 miles to the east from where it had been previously ruled by a (\*) Sultanate that pushed the Tanzimat reforms. The Treaty of Lausanne ("*lo-zan*") allowed this country to exchange Orthodox Christians to its western neighbor. Reforms by this country's first president included adopting the Latin alphabet and banning the fez. For 10 points, name this country, in which Mustafa Kemal Ataturk governed from Ankara.

ANSWER: Republic of Turkey [or Türkiye Cumhuriyeti]  
<AP, History - World History> [Ed. QP]

21. A treatment for this condition was discovered in an experiment where John Cade injected the urine of people with this condition into guinea pigs. It's not psychosis-related but people with this condition experience episodes characterized by the "flight of ideas." A rare but milder form of this condition is cyclothymia. This condition's most commonly prescribed medication is the (\*) stabilizer lithium carbonate. Rapid cycling is a severe symptom of this mental disorder, which can come in Type I and Type II depending on the presence of hypomania. For 10 points, name this mental disorder in which the patient has states of mania and depression.  
ANSWER: bipolar affective disorder [accept manic-depressive disorder or manic depression before "depression" is read; do NOT accept or prompt on "BPD", prompt on depression or (hypo)mania]  
<PQ, Social Science - Psychology> [ed. RR]

22. One form of this quantity equals "*omega cross quantity omega cross r*." "2 times *omega cross v*" gives a form of this quantity named for Coriolis. This quantity is multiplied by twice the displacement in Torricelli's equation. By definition, this quantity is zero in an inertial reference frame. For a simple harmonic oscillator, this quantity equals negative omega squared times *x*. The time derivative of this quantity is (\*) jerk. Torque divided by moment of inertia equals the angular form of this quantity. Newton's second law defines force equal to mass times this quantity. For 10 points, name this quantity, measured in meters per second squared, the time derivative of velocity.  
ANSWER: acceleration [accept linear acceleration or angular acceleration; prompt on a]  
<QP, Science - Physics> [Ed. JF]

23. As part of this practice, *shochtim* ("*shoke-tim*") determine whether certain objects are "smooth", or *glatt*. A sciatic nerve injury suffered by Jacob while wrestling an angel informs one aspect of this practice. As part of this practice, a long, non-pointed knife called a *sakin* is used to perform *shechita*. ("*she-hee-ta*"). A symbol consisting of an encircled letter U is used to certify this practice. Rules for this practice include the prohibition of (\*) cloven-hoofed animals that do not "chew the cud," like pigs. A prohibition in Deuteronomy against "seething a kid in its mother's milk" informs one component of this practice, a ban on mixing meat and dairy. For 10 points, name this practice of following Jewish dietary laws.  
ANSWER: keeping kosher [or kashrut, or kashruth, or kashrus, accept shechita, shehitah, shechitah, or shehita before "shechita"; prompt on slaughter or butchery]  
<QP, Beliefs - Practices> [ed. DC]

24. In a film by this director, a group of student protestors lead the Chessboard Revolution in a section titled "Revisions to a Manifesto." Throughout a film by this director, a Ben Stiller-played character and his two sons always wear bright red Adidas tracksuits. One of this director's films follows four employees of the *Liberty, Kansas Evening Sun* (\*) newspaper as they put together stories for its final publication. A canine flu strikes Japan in this director's 2nd stop-motion film, *Isle of Dogs*. This director's signature style of flat, symmetric shots with vibrant pastel colors can be observed in his film *Moonrise Kingdom*. For 10 points, name this director of *The French Dispatch* and *The Grand Budapest Hotel*.  
ANSWER: Wes Anderson [or Wesley Wales Anderson; prompt on Anderson alone]  
<PQ, Pop Culture - Film> [Ed. SB]



# BONUSES

1. For 10 points each, answer the following about the banking system.

[10h] Nearly all money is printed by banks which issue loans under this dominant type of system around the world. This two-word term refers to a banking system where only a subset of a bank's deposits are actually held in cash.

**ANSWER: fractional reserve** banking

[10e] Reserve ratios protect banks from these crises in which too many worried bank customers attempt a withdrawal in a short time period. One of these crises occurred in the US in 1837.

**ANSWER: panics** [or runs]

[10m] Following the Panic of 1837, eight states, including Michigan and Indiana, performed this action on their debts. This action occurs when a borrower fails to repay its debt in the agreed timeframe.

**ANSWER: default**

<PQ, Social Sciences- Economics> [Ed. KJ]

2. In AXE notation, most molecules with this geometry have the structure AX<sub>2</sub>E<sub>2</sub>. For 10 points each:

[10m] Name this molecular geometry possessed by a molecule with two ligands and one or two lone pairs according to VSEPR (“vesper”) theory. Water has this molecular geometry.

**ANSWER: bent** [or angular or V-shaped]

[10e] VSEPR theory states that the repulsion between pairs of these particles dictates molecular structure. The V in VSEPR stands for these particles, which occupy the outermost electron shell and can create bonds.

**ANSWER: valence** electrons

[10h] VSEPR theory predicts trigonal bipyramidal geometry for the transition state of this type of reaction. This type of reaction proceeds through backside attack, causing an inversion of stereochemistry.

**ANSWER: SN<sub>2</sub>** reaction [prompt on nucleophilic substitution]

<SB, Science - Chemistry> [Ed. MS]

3. The Department of Energy was created by this president, whose term marked the end of the “golden age” of environmental legislation. For 10 points each:

[10m] Name this president. This president said “we can’t go on consuming 40% more energy than we produce” in his “Crisis of Confidence” speech given during an energy crisis.

**ANSWER: Jimmy Carter**

[10e] Carter declared a federal health emergency after Love Canal, a neighborhood in this state, was discovered to be a chemical dumping site. Love Canal is located near Niagara Falls on this state’s northern border.

**ANSWER: New York**

[10h] Towards the end of his presidency, Carter dealt with a partial meltdown at this location in Pennsylvania that galvanized the anti-nuclear energy movement despite no proven long-term health effects.

**ANSWER: Three Mile Island** Nuclear Generating Station [prompt on TMI]

<LM, History - American History> [Ed. QP]

4. According to fellow artist Paul **Signac**, (“sin-yock”), this artist created “the most beautiful painter’s drawings in existence.” For 10 points each:

[10m] Name this French artist who, along with Signac, developed a branch of impressionism that did not mix paints, instead laying down colors in small discrete dots.

**ANSWER:** Georges **Seurat** [or Georges Pierre **Seurat**]

[10e] **Seurat’s** (“sirrah’s”) sketches were mostly done with graphite conté sticks. Conté sticks are a type of these drawing instruments, which are made from colored wax by brands like Crayola.

**ANSWER:** (conté) **crayons** [accept wax **pastels**]

[10h] One of Seurat’s noted sketches is titled *The Hand of Poussin*, (“poo-san”), *After [this artist]*, which was based on this French Neoclassicist’s intricate painting of *The Apotheosis of Homer*.

**ANSWER:** Jean-Auguste-Dominique **Ingres** (pronounced “ANG-gruh”)

<PQ, Fine Arts- Painting and Sculpture> [Ed. SB]

5. The WCS in Japan is an annual world championship in this activity. For 10 points each:

[10m] Name this activity performed by pop culture enthusiasts such as Yaya Han. Preliminary competitions to qualify for the WCS are held at conventions like Anime Expo or **Otakuthon**. (“oh-tah-koo-thon”).

**ANSWER:** **cosplay** [prompt on descriptions of  dressing up like characters  with “what is the standard term for that practice?”]

[10e] The British preliminary competition for the World Cosplay Summit is at one of these events in London. One of these alliterative events in San Diego is the largest annual pop culture festival in the world.

**ANSWER:** **Comic Con** [accept MCM London **Comic Con** or San Diego **Comic-Con** International]

[10h] The 2021 WCS was won by the German cosplayers Calssara and Elffi, who went as Jessie and Biggs from this game. Those characters are part of this game’s Avalanche terrorist group.

**ANSWER:** **Final Fantasy VII Remake** [prompt on *Final Fantasy*; do not accept or prompt on other numbers]

<SB, Pop Culture - Other> [Ed. SB]

6. In the novel *Closing Time*, John Yossarian frequently compares himself to this novella’s lonely main character. For 10 points each:

[10h] Name this novella where Gustav von Aschenbach collapses dead on a beach while trying to follow Tadzio.

**ANSWER:** **Death in Venice** [or *Der Tod in Venedig*]

[10e] *Closing Time* is the sequel to this Joseph Heller novel, in which a paradoxical rule keeps the World War II pilot John Yossarian stuck in a seemingly-endless bombing mission.

**ANSWER:** **Catch-22**

[10m] *Death in Venice* is by this German author, who also wrote of Hans Castorp’s stay at a sanatorium in their novel *The Magic Mountain*.

**ANSWER:** Thomas **Mann** [or Paul Thomas **Mann**]

<PQ, Literature - Novels> [Ed. SB]

7. In 2018, Saudi Arabia hosted a hackathon aimed at improving the logistics of this event. For 10 points each:

[10e] Name this fifth pillar of Islam. An all-female team was awarded a cash prize of one million riyals for their app that quickly translates signposts for non-Arabic speakers undertaking this pilgrimage to Mecca.

**ANSWER:** **hajj**

[10m] With the help of GPS-based apps, this direction can be easily located. Observing Muslims direct their prayer in this direction, towards the Kaaba, and are often buried perpendicular to it.

**ANSWER:** **qiblah**

[10h] To save on characters, English-speaking Muslims may use this acronym in tweets, shortening a phrase often appended to Muhammed’s name. Either the original Arabic or common four-letter English acronym is acceptable.

**ANSWER:** **Peace Be Upon Him** (accept **S**allallahu **A**layhi **W**a **S**alaam; accept **SAWS**)

<PQ, Beliefs - Practices> [ed. DC]



8. These conflicts were always fought equal numbered on both sides and only with close ranged weapons like the bladed clubs *macuahuitl* (“mach-uh-wee-tul”). For 10 points each,  
[10h] Name these planned, ritual conflicts that targeted *altépetl* (“al-teh-peh-tul”) and were conducted partly to use prisoners for human sacrifice.

**ANSWER: Flowery wars** [need both underline portions]

[10e] Flower wars were waged by this empire, an alliance of three cities including Tenochtitlan that was toppled by Hernán Cortés.

**ANSWER: Aztec** empire

[10m] The wooden *macuahuitl* (“mach-uh-wee-tul”) clubs were adorned with blades made of this volcanic material, a popular tool-making material across the pre-metallurgic Mesoamerica.

**ANSWER: obsidian**

<PQ, History - World History> [Ed. LM]

9. For 10 points each, answer the following about flatbreads around the world:

[10m] This leavened flatbread is eaten in the Mediterranean and the Middle East. Many versions of this flatbread contain an inner pocket and are eaten with falafel.

**ANSWER: pita** bread

[10h] This South Indian flatbread is traditionally served with sambar and chutney. It is made from a fermented lentil and rice dough, and resembles a crepe when fried.

**ANSWER: dosa**

[10e] Johnnycakes are a flatbread from the Atlantic coast made from this grain. Since the pre-Columbian era, this grain has been used in Central and South America to make *arepas* and tortillas.

**ANSWER: corn** [or maize]

<VS, The World - Geography> [Ed. QP]

10. The convention of representing this quantity as flowing from positive to negative comes from an arbitrary description made by Benjamin Franklin. For 10 points each:

[10m] Kirchoff’s junction rule equates certain sums of what quantity?

**ANSWER: electric current** [prompt on  $i$ ]

[10h] Franklin was also among the first to propose this principle that forms the basis for Kirchoff’s junction rule. This principle can be expressed as the continuity equation “ $dQ-dt$  equals  $q$ -sub-in minus  $q$ -sub-out.”

**ANSWER: conservation of charge** [or charge conservation; accept answers describing how electric charge cannot be created or destroyed]

[10e] Franklin is widely credited as inventing a device containing a rod that attracted this natural phenomenon. He flew a kite with a key attached to it in order to prove that this phenomenon is a discharge of electricity.

**ANSWER: lightning** [accept lightning rod]

<LM, Science - Physics> [Ed. DB]

11. After signing a deal with another character, this man doubts his decision when the words [homo fuge](#) (“*ho-mo foo-gay*”) appear upon his arm. For 10 points each:

[10h] Name this character who, after making a deal for magical power, uses his newfound abilities to turn invisible and steal food from Pope Adrian.

**ANSWER:** Doctor **Faustus** [do not accept or prompt on **Faust**]

[10m] Doctor Faustus makes a deal with Mephistophilis in a play by this English playwright. This contemporary of Shakespeare also wrote *The Jew of Malta*.

**ANSWER:** Christopher **Marlowe**

[10e] Doctor Faustus asks Mephistophilis to conjure the ghost of this woman whose “face [had] launch’d a thousand ships” and started the Trojan War.

**ANSWER:** **Helen** of Troy [or **Helen** of Sparta; or **Helena**]

<LM, Literature - Drama> [Ed. PS]

12. While the 12th-century abbot and historian [Suger](#) (“*soo-ger*”) was once credited directly as the inventor of this architectural style, it is now believed that he was only a forward-thinking patron of its pioneers. For 10 points each:

[10e] Name this medieval architectural style whose signature pointed arches and flying buttresses allowed for cathedrals to have thinner walls and more windows than their Romanesque predecessors.

**ANSWER:** **Gothic** style [or **Gothic** architecture]

[10m] Along with pointed arches and flying buttresses, this signature technological advance of the Gothic style allowed for higher ceilings. This form of vaulting is lighter than barrel and groin vaults.

**ANSWER:** **ribbed** vaults

[10h] Suger’s improvements to this church marked the earliest full realization of the Gothic style. This church, which contains the necropolis of the French kings, is named for a martyr who carried his severed head to the site.

**ANSWER:** Basilica of **Saint-Denis** (“*san-de-nee*”) [or *Basilique royale de **Saint-Denis***, or *Basilique-cathédrale de **Saint-Denis***]

<QP, Fine Arts - Other Visual> [ed. DC]

13. Two of the largest flowers in the world, the titan arum and the [rafflesia](#), (“*ra-flee-sha*”), share this nickname. For 10 points each:

[10h] Give this common name for the category of plant that includes the titan arum and the genus *Stapelia*, which are known for their fuzzy, dark-red appearance and characteristic odor.

**ANSWER:** **carrion** flowers [or **corpse** flowers or **stinking** flowers]

[10m] Carrion flowers mimic rotting corpses in order to trick scavengers into facilitating this process. Colony collapse disorder is a major factor in the decline of organisms that facilitate this process.

**ANSWER:** **pollination** [accept word forms; accept **pollinator**s; prompt on word forms of **reproduction** and **fertilization**]

[10e] These insects are the best-known pollinators. Apiarists maintain colonies of this genus of insects, which produce a namesake sugary substance by regurgitating nectar.

**ANSWER:** **honey bees** [or **Apis**; accept specific species of genus **Apis**; prompt on **bees**; reject “bumblebees” or other specific kinds of bees]

<SB, Science - Biology> [Ed. DB]

14. In one of this author's poems, the title year changes the world to see "never such innocence again." For 10 points each:

[10h] Name this English poet of "MCMXIV." ("1914"). They also advised "get out as early as you can, / And don't have any kids yourself" in their poem "This Be The Verse".

**ANSWER:** Philip Larkin

[10m] This other poet also wrote a poem titled "1914" that begins "War broke: and now the Winter of the world." They also mocked "the old Lie" in the poem "Dulce (*"dool-kay"*) et Decorum est."

**ANSWER:** Wilfred Owen

[10e] Both "1914" poems center on the effects of this large-scale conflict that started in the year 1914.

**ANSWER:** World War I [or WWI, or the First World War; accept the Great War; prompt on World War]

<PQ, Literature - Poetry> [Ed. SB]

15. Twenty-nine US states have laws protecting against this type of lawsuit on the grounds they violate the 1st Amendment. For 10 points each:

[10h] Name this type of lawsuit, commonly known by its acronym, that is defined as when a plaintiff, who has little intention of winning, frivolously sues the defendant to burden them with legal costs and silence criticism.

**ANSWER:** SLAPP [accept Strategic Lawsuit Against Public Participation]

[10m] In a 2003 ruling citing anti-SLAPP laws, this actress lost her case to remove a photo of her house from the Internet. The case led to a namesake effect in which attempts to hide information bring more attention to it.

**ANSWER:** Barbara Streisand

[10e] Situations in which a speaker is silenced based on the anticipation of disruptive reactions are known as "heckler's [this action]." When done by the President to a bill, this action can be overruled by  $\frac{2}{3}$  vote in Congress.

**ANSWER:** veto

<PQ, Social Science - Other> [ed. RR]

16. The Battle of Tegyra (*"te-gear-a"*) was the first recorded victory for this group under the leadership of Pelopidas. (*"pe-lop-ih-dus"*) For 10 points each:

[10m] Name this legendary wing of the Theban army that consisted of 150 pairs of male lovers.

**ANSWER:** Sacred Band of Thebes

[10e] At the Battle of Leuctra, (*"lay-uk-tra"*) the Sacred Band of Thebes defeated this Greek city-state, creating a brief Theban hegemony. (*"he-jemminy"*). King Leonidas (*"lee-yon-ih-dus"*) led 300 soldiers from this militaristic city-state at the Battle of Thermopylae. (*"ther-maw-pil-lee"*)

**ANSWER:** Sparta [or Lacedaemon]

[10h] This ancient city-state had its own Sacred Band, which battled against King Agathocles (*"a-gath-o-cleez"*) of Syracuse under the command of Hanno.

**ANSWER:** Carthage

<LM, History - Other History> [Ed. LM]

17. The volunteer-run COVID Tracking Project was an early go-to source for compiled pandemic data in the United States, even being cited by the CDC. For 10 points each:

[10m] Journalists Alexis Madrigal and Robinson Meyer co-founded the project for this publication, whose current Editor-in Chief is Jeffrey Goldberg.

**ANSWER:** *The Atlantic (Monthly)*

[10e] A 2020 *Nature* article attacking the U.S. COVID-19 data “crisis” praises South Korea and Singapore for collecting data via this two-word epidemiological practice of identifying and notifying possible exposures.

**ANSWER:** contact tracing

[10h] For global COVID-19 stats, this oft-cited, Oxford-run, online publication maintains testing and vaccination numbers for every country. This Y Combinator-backed nonprofit is known for its interactive charts.

**ANSWER:** Our World In Data

<PQ, The World - Current Events> [ed. KJ]

18. A debate still rages over whether or not this player pushed off of Bryon Russell for a game-winning shot in the 1998 Finals. For 10 points each:

[10e] Name this player, whose buzzer beater over Craig Ehlo in the 1989 playoffs is simply known as “The Shot”. This player won 6 Finals MVPs while leading the Chicago Bulls to 6 championships in the 1990s.

**ANSWER:** Michael Jordan

[10m] This current player made the only game-winning buzzer-beater in Game 7 history. That shot by this player bounced four times on the rim before going in, clinching a series win over the 76ers in 2019.

**ANSWER:** Kawhi Leonard

[10h] This 5’9” player was so good at the end of games he earned the nickname “King of the Fourth” while with the Celtics. In 2011, this player hit a game winning shot to win the Pac-12 tournament for the University of Washington.

**ANSWER:** Isaiah Thomas

<VS, Pop Culture - Sports> [ed. RR]

19. In a West African folk tale, a squirrel reclaims his home from this creature after a mighty storm because it could travel through the trees without touching the ground. For 10 points each:

[10e] Name these creatures that the trickster Anansi takes the form of. In Greek mythology, Arachne is turned into one of these eight-legged critters.

**ANSWER:** spiders

[10m] Ratatosk is a squirrel who runs up and down this tree to deliver messages. The Norns water the roots of this tree which is surrounded by the Nine Worlds.

**ANSWER:** Yggdrasil

[10h] In the myths of the Choctaw people, these events are caused by a hungry black squirrel. The Incans believed these events occurred when Inti was sick.

**ANSWER:** solar eclipse

<QP, Beliefs - Stories> [Ed. LM]

20. An *Esquire* article about this man is regarded as one of the finest magazine articles ever published. For 10 points each:

[10e] Name this singer who “Has A Cold” in the title of a New Journalist celebrity profile by Gay Talese. That profile loosely covers this Rat Pack crooner’s relationship with his daughter Nancy.

**ANSWER:** Frank **Sinatra** [or Francis Albert **Sinatra**]

[10h] Gay Talese’s other famous celebrity profile, “The Silent Season of a Hero,” centers on this person. In *The Old Man and the Sea*, Santiago dreams of fishing with this person.

**ANSWER:** Joe **DiMaggio** [or Joseph Paul **DiMaggio**]

[10m] Another author in the New Journalism style was this writer of *Slouching Towards Bethlehem* and *The Year of Magical Thinking*. This author, who died in December 2021, claimed “we tell ourselves stories in order to live.”

**ANSWER:** Joan **Didion**.

<PQ, Literature - Other> [Ed. SB]

21. For sufficiently large sample sizes, the sample mean of independent observations from any population follows this distribution. For 10 points each:

[10e] Name this continuous, bell-shaped distribution whose standard deviations follow the 68-95-99.7 rule.

**ANSWER:** **normal** distribution [or **Gaussian** distribution or Laplace-**Gauss** distribution]

[10m] The standard normal distribution, which has a mean of zero and a variance of one, is named for its correspondence with these quantities. This quantity for an observation  $x$  and a normal distribution with mean  $\mu$  and standard deviation  $\sigma$  equals “quantity  $x$  minus  $\mu$ ” over  $\sigma$ .

**ANSWER:** **Z-scores** [or **Z-values**, **standard scores**, **normal scores**, or **standardized variables**]

[10h] The error function can be derived from this function for a certain normal distribution. This function for a random variable  $X$  gives the probability that  $X$  is less than or equal to a given value.

**ANSWER:** **cumulative distribution** function [or **CDF**; prompt on **distribution** function]

<SB, Science - Math> [Ed. DB]

22. The Soviet Army’s “Deep Operation” tactic has been compared to this one. For 10 points each:

[10m] Name this fast-paced tactic that was employed to rapidly take over Poland, the Netherlands, Belgium, and most notably, France. Its name translates as “lightning war.”

**ANSWER:** **blitzkrieg**

[10e] The German army’s *blitzkrieg* tactic in World War Two relied heavily on support from these machines that made up the *Luftwaffe*. (“luft-vaf-fuh”). These machines dropped several tons of bombs on London during the Battle of Britain.

**ANSWER:** **airplanes** [accept answers clearly referring to **aircraft**]

[10h] The term “sitzkrieg” was given to an eight month period between the UK and France’s declaration of war against Germany and Germany’s invasion of France that was also described with this adjective due to the relative lack of military action.

**ANSWER:** **phony** [accept **Phony War**]

<LM, History - European History> [Ed. LM]

23. **Averroes** (“a-vair-o-eez”) gained the nickname “The Commentator” for his “short,” “middle,” and “long” commentaries on this philosopher’s work. For 10 points each:

[10m] Name this philosopher who became popular in the Middle East following al-Abadi’s translations of their works, such as *Metaphysics*.

**ANSWER: Aristotle** [or **Aristotélēs**]

[10h] One of the Middle Eastern **Aristotelians** (“a-ris-to-tee-l-ians”) was Avicenna, who used this argument for the existence of the soul. The namesake person in this argument knows that he exists despite a complete lack of sensory information.

**ANSWER: the floating man** [or the **flying man**, or the **man suspended in air**, accept reasonable equivalents]

[10e] Al-Ghazali criticized Middle Eastern Aristotelians in *The Incoherence of the Philosophers*, claiming that their work was heretical and constituted a disbelief in this religion, the most widely practiced in the Middle East.

**ANSWER: al-Islam** [accept **Muslim**]

<SB, Social Sciences - Philosophy> [Ed. QP]

24. For 10 points, answer the following about electronic music composer Éliane **Radigue**: (“ra-deeg”):

[10m] Radigue was associated with this musical movement, whose founding works include the tape loops of Terry Riley and the operas of Philip Glass.

**ANSWER: minimalism** [accept word forms like **minimalists**]

[10e] Radigue mostly composed with her ARP 2500 model of these electronic instruments. Often played with a keyboard, the digital form of these instruments were essential to the pop music of the ‘80s.

**ANSWER: synthesizer**

[10h] Radigue’s early work heavily featured this minimalist technique, which was pioneered by La Monte Young. In this ambient technique, a tone cluster is sustained for a long time, similar to the effects of a didgeridoo.

**ANSWER: drone**

<PQ, Fine Arts - Classical Music> [Ed. QP]