

**2022 ACF Fall**

**Packet E by Nebraska A, Virginia Tech A, Cambridge A**

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Tossups

1. In English, this time period names an event during which a prophet sees the Lote Tree of the Boundary. That event named for this time period consists of Isra' and Mi'raj, and includes Muhammad being advised to request fewer and fewer daily prayers. This time period's Arabic name precedes "al-Qadr" in a celebration during the last third of Ramadan, which celebrates when the Quran was sent down. Muhammad was miraculously moved to Jerusalem during this time period in a namesake "journey." This time period follows the Maghrib prayer and its beginning coincides with *iftar*. For 10 points, Ramadan fasts are broken during what time period that occurs after sunset?

ANSWER: **night** [or **Laylat**; accept **Night** Journey; accept **Night** of Power or **Laylat** al-Qadr or **Laylat** al Isra' or **Laylat** al Mi'raj; accept **Mi'raj** until read; accept **ladder** or **ascension**; accept **Isra'** until read; accept **evening** or descriptions of the **sundown** or **darkness**; accept **twilight** or **dusk** or **sunset**]

<Religion>

2. This psychologist discussed vicarious motivators and observational learning in his book *Social Foundations of Thought and Action: A Social Cognitive Theory*. A concept developed by this psychologist denotes the belief in oneself in order to improve and reach goals. This originator of "self-efficacy" conducted an experiment in which participants yelled phrases like "pow!" and "sock him!" In that experiment, this psychologist showed that children observe adults' behavior around an item and model their aggression. For 10 points, name this Stanford psychologist behind the Bobo doll experiment.

ANSWER: Albert **Bandura**

<Social Science>

3. How well a system approximates this kind of substance is modeled by cubic equations of state such as the Redlich–Kwong equation. Systems begin to act like these substances at the Boyle temperature, which is where the second virial ("VEER-ee-uhl") coefficient becomes zero. These substances have a value of one for a factor symbolized capital Z, and have values of zero for parameters representing interactions and particle size, denoted *a* and *b*, that appear in the van der Waals equation. A constant named for these substances equals about 8.314 joules ("jewels") per mole-kelvin. For 10 points, name these theoretical substances that obey the equation  $PV = nRT$  ("P-V equals n-R-T").

ANSWER: **ideal gases** [accept **ideal gas** law; accept **ideal gas** constant; prompt on **gases**]

<Chemistry>

4. Under King Reccared ("RECK-uh-red") of the Balt Dynasty, these people converted from Arianism to Nicene Christianity. These people first established a capital at Toulouse before losing the Battle of Vouillé ("VOO-ee-ay") to Clovis I. These people's kingdom collapsed in 711 CE after the Battle of Guadaleta ("gwah-dah-LAY-tay"), where King Roderic was killed by the forces of Ṭāriq ibn Ziyād, an Umayyad commander. Prior to establishing a kingdom in Hispania, these people were led by Theodoric I, who aided Rome at the Battle of Châlons against Attila the Hun. These people earlier sacked the city of Rome in 410 under their first king, Alaric. For 10 points, name these people, the Western counterparts of the Ostrogoths.

ANSWER: **Visigoths** [**Visigothi**; or **Vesi** or **Wisi** or variants; accept **Visigothic** Kingdom; prompt on **Goths** or **Gothi** or **Gutbiuda** or Regnum **Gothorum** until "Ostrogoths" is read]

<Other History>

5. A novel by this author opens with a character singing “to be born again, first you have to die.” This author created a film actor who dreams about the conversion of Jahilia to the monotheistic religion Submission by the prophet Mahound. In another novel by this author, a midwife accidentally switches a character with large knees and a telepathic character with a large, constantly dripping nose. A plane exploding over the English Channel leaves Gibreel Farishta and Saladin Chamcha as the only survivors in a novel by this author, who was severely injured in a 2022 stabbing in New York. For 10 points, Ayatollah Khomeini issued a fatwā against what Indian author of *The Satanic Verses* and *Midnight’s Children*?

ANSWER: Salman **Rushdie** [or Sir Ahmed Salman **Rushdie**]

<World/Other Literature>

6. In a portrait, this artist used Japanese decor to frame Émile Zola, who sits nearly side-profile at his desk. This artist painted a woman who sits with a dog and book in her lap as a young girl clutches the iron fence behind them in *The Railway*. The Courtauld Gallery holds a painting by this artist that depicts the viewer reflected at the far right talking with a cabaret barmaid. This artist recalled Titian’s *Venus of Urbino* with a painting of Victorine Meurent reclining on an oriental shawl with an arching black cat. In that painting by this artist, Meurent models nude as a Parisian prostitute and lays on a bed next to her Black servant. For 10 points, name this artist of *A Bar at the Folies-Bergère* and *Olympia*.

ANSWER: Édouard **Manet** [reject “Monet”]

<Painting/Sculpture>

7. An athlete in this sport says, “I get good grades. I go to church” before indignantly referencing this sport while at True Directions. Rancho Carne wins five straight championships in this sport before losing under Torrance Shipman’s leadership. A character from Lima Heights receives a scholarship to Louisville in this sport and is a member of the “Unholy Trinity” alongside her future wife Brittany S. Pierce. Sue Sylvester primarily coaches this sport on *Glee*. This sport titles a Netflix docuseries focused on Navarro College’s attempts to win its national championship. For 10 points, name this sport in which competitors perform basket tosses and form themselves into pyramids.

ANSWER: **cheer**leading [or word forms such as **cheer**leader; accept *But I’m A Cheerleader*; prompt on **Glee** Club or Show **Choir** by asking “what other activity did that character participate in?”] (The second sentence refers to *Bring It On*.)

<Pop Culture>

8. In bacteria, about 30 units of this compound are used to tag RNA destined for the degradosome (“degrade-uh-sohm”). This compound is combined with nicotinamide (“nick-oh-TIN-uh-myde”) in an electron carrier molecule that is reduced during glycolysis (“glai-KAH-luh-sis”). Export from the nucleus requires a sequence of this nucleobase that is attached to the 3-prime end of mRNA after it is spliced. That sequence of this base protects against enzyme degradation and is a 250-unit-long “tail.” This purine (“PURE-een”) base uses two hydrogen bonds to pair with uracil in RNA and with thymine in DNA. For 10 points, name this nitrogenous base symbolized A.

ANSWER: **adenine** [or **Ade**; accept **A** until read; accept **adenosine**; accept **AMP** or **adenosine** monophosphate; accept nicotinamide **adenine** dinucleotide; accept poly-**A** tail until “A” is read; prompt on **NAD+** or **NADH**]

<Biology>

9. A government program first proposed during this decade included components like Brilliant Eyes and Brilliant Pebbles. A speech given during this decade compared seven people to Francis Drake and ended by noting how they had “touch[ed] the face of God.” The State of the Union address was postponed for the first time in this decade due to an event investigated by Richard Feynman and the Rogers Commission. Ted Kennedy’s ridiculing of the Strategic Defense Initiative during this decade led it to be nicknamed “Star Wars.” The teacher Christa McAuliffe died during a disaster in this decade caused by an O-ring failure. For 10 points, name this decade during which the Space Shuttle *Challenger* disaster took place under the Reagan administration.

ANSWER: **1980s** [accept the **eighties**]

<American History>

10. A character in this play is unsure if a “fatal vision” is merely “a false creation / Proceeding from the heat-oppressed brain.” In this play, a character wonders why he had trouble saying the word “amen” before hearing a voice cry “sleep no more!” In this play, apparitions like “an armed Head” appear to a character before he sees a procession of eight kings. A character in this play appeals to “you spirits / That tend on mortal thoughts” to “make thick my blood” and “unsex me here.” While sleepwalking, that woman in this play mimes washing her hands and cries “out, damned spot!” For 10 points, King Duncan is murdered by the title Thane of Glamis in what “Scottish play” by William Shakespeare?

ANSWER: **Macbeth** [or *The Tragedy of Macbeth*]

<British Literature>

11. The number of ways to partition these objects is quantified by the Bell numbers. A vertical bar and a predicate are used to construct these objects in their namesake “builder” notation. The axiom of choice is controversially included in a foundational theory of these objects named for Zermelo and Fraenkel. Whether one of these objects contains itself is the subject of Russell’s paradox. A Cartesian product creates ordered pairs given two of these objects as input. Some of these objects are called “singleton” if they contain only one object. An “O” with a slash denotes an “empty” or “null” one that has cardinality 0. For 10 points, name these unordered collections of elements.

ANSWER: **sets** [accept unit **set** or empty **set** or null **set**; accept **set** theory or Zermelo–Fraenkel **set** theory; accept **set** builder notation]

<Other Science>

12. A future leader of this country led Operation Gazelle, which resulted in his victory over Abd el-Hamid’s forces in the Battle of the Chinese Farm. An ethnic group memorializes their expulsion by this country’s government on May 15, which they call Nakba Day. Operation Badr penetrated this country’s defensive Bar-Lev Line during a 1973 conflict that included a battle in the “Valley of Tears” fought as part of an effort to recapture the Golan (“goh-LAHN”) Heights from it. The paramilitary group Haganah (“huh-guh-NUH”) became part of this country’s corps of “defense forces” founded by Prime Minister David Ben-Gurion during its 1948 war of independence. For 10 points, name this country that fought against Arab forces during the Yom Kippur War.

ANSWER: **Israel** [or State of **Israel** or Medinat **Yisra’el** or Dawlat **’Isrā’īl**; accept **Israel** Defense Forces or Tsva ha-Hagana le-**Yisra’el**; reject “Palestine”]

<World History>

13. A fashion house from this country was credited with making the first “it” bag adorned solely with its double F logo after it appeared on *Sex and the City*. A fashion house from this country pays homage to its historic leather products with bamboo handles and horsebit motifs. A designer in this country made Oroton metal mesh dresses and Elizabeth Hurley’s safety pin dress. A Medusa head is the logo of a house from this country, which features its products at the third of the “Big Four” fashion weeks. A fashion house from this country was taken over by the founder’s sister after his 1997 murder in Miami. For 10 points, name this home country of Gucci and Versace, which hosts a fashion week in Milan.

ANSWER: **Italy** [or **Italia** or **Italian Republic**] (The first line refers to Fendi.)

<Other Fine Arts>

14. The blockheaded title character of a story by this author wins a contest with his straightforward responses, including a suggestion to use mud for soup. In another story by this author, the shards of a mirror get into Kai’s eyes, causing him to see everything as bad and ugly except for tiny snowflakes. This author created a one-legged character who gets thrown into a fire and transforms into a tiny tin heart. In another story, this author wrote about a girl who lights up all the matches that she was supposed to sell in order to stay warm. One of this author’s characters finds that they are unexpectedly accepted by a group of swans. For 10 points, name this Danish author of fairy tales such as “The Ugly Duckling.”

ANSWER: Hans Christian **Andersen** (the unnamed stories are “Blockhead Hans,” “The Snow Queen,” “The Steadfast Tin Soldier,” and “The Little Match Girl.”)

<European Literature>

15. During this conflict, a commander mistakenly thought that an ally’s badge was a “sun in splendour” rather than a “star with rays” and attacked them during the Battle of Barnet. The two sides of this conflict attempted to reconcile during a failed arbitration session on “Loveday.” Because of the influential role he played during this conflict, Richard Neville became known as the “Kingmaker.” During this conflict’s opening battle at Saint Albans, Henry VI was captured by Richard Plantagenet (“plan-TAD-juh-net”). Richard III’s death during this conflict’s Battle of Bosworth Field led to the rise of the House of Tudor. For 10 points, name this series of wars between the Houses of Lancaster and York, which is named for their shared floral emblem.

ANSWER: Wars of the **Roses** [reject “English Civil War”]

<European History>

16. During an episode in this novel, the narrator picks cotton in Sabinal, but quits when he realizes that he isn’t making enough to support his girlfriend and her child. At the end of this novel, the narrator goes to a concert with his friends, thinking all the time of another friend traveling three thousand miles by train. The narrator never ends up going to Italy in this novel after his friend has a child with Inez. The first draft of this novel was made on sheets of paper that the author taped together and called “the scroll.” A trip to Mexico in this novel was inspired by a real trip this author made with his friend Neal Cassady. For 10 points, the travels of Sal Paradise and Dean Moriarty make up what Beat Generation novel by Jack Kerouac?

ANSWER: ***On the Road***

<American Literature>

17. A thinker from this school named Hipparchia insisted on publically consummating her marriage with an older philosopher to practice *anaideia*, or “shamelessness.” This school of philosophy practiced by Crates of Thebes was founded by a student of Socrates named Antisthenes. A thinker from this school presented a plucked chicken after Plato described man as a “featherless biped.” That thinker from this school, who lived in a large jar, used a lantern during daylight to search for an honest man. For 10 points, name this school of “dog-like” philosophy embodied by Diogenes, which inspired a modern word for people who distrust others’ motives.

ANSWER: **Cynicism** [or the **Cynics** or **Cynici**]

<Philosophy>

18. Due to this law, motors reduce the current flow through a circuit by generating a “back” quantity proportional to power output. The curl of the electric field appears in this law when expressed in differential form. The number of turns in a coil can be included as a factor in this law, which allows calculation of the step-up or step-down voltage in a transformer. The direction of the electromotive force produced by this law is governed by Lenz’s law, which adds a minus sign to this law in front of the time derivative of magnetic flux. For 10 points, name this law of electromagnetism that describes how changing magnetic fields induce voltage.

ANSWER: **Faraday**’s law [or **Faraday**’s law of induction; prompt on law of induction]

<Physics>

19. This composer’s second-to-last symphony begins with bass instruments playing [read slowly] “E-flat D E-flat C,” the start of the “Dies irae” after a drumroll. This composer’s last symphonies are often named for Johann Peter Salomon, who commissioned him to work in London. An F-sharp minor symphony by this composer ends with the players implicitly asking to go home by gradually leaving the stage and blowing out their candles. In another symphony, this composer wrote a sudden fortissimo G major chord in an otherwise quiet theme and variations. For 10 points, name this “Father of the Symphony” who wrote the *Farewell* Symphony and *Surprise* Symphony.

ANSWER: Joseph **Haydn** [or Franz Joseph **Haydn**]

<Classical Music>

20. During one of these events, the centaurs Hylaeus and Rhoecus were killed after a rape attempt. A hero visited Pholus’s cave for advice about one of these events and was told to stay in thick snow. The slaying of Toxeus and Plexippus during one of these events prompted the burning of a log that the Fates took from Althaea’s fireplace. Zeus prevented Arcas from killing his mother during one of these events by turning her into the constellation Ursa Major. Meleager died after one of these events in Calydonia, where Atalanta won a boar’s hide. For 10 points, the virgin goddess Artemis presides over what events led in pursuit of wild animals?

ANSWER: **hunts** [or word forms like **hunting**; accept Calydonian boar **hunt** or Aetolian boar **hunt**; accept Erymanthian boar **hunt**; prompt on labors of Heracles or labors of Hercules]

<Mythology>

## Bonuses

1. A resident of this town discovers that pieces of gold in a sack are actually pieces of lead that have been gilded. For 10 points each:

[10h] Name this town that titles a story in which Edward and Mary receive a note prompting them to “go, and reform” from a stranger who vows to corrupt this town.

ANSWER: **Hadleyburg** [accept “The Man That Corrupted **Hadleyburg**”]

[10e] “The Man That Corrupted Hadleyburg” was written by this author of *The Adventures of Tom Sawyer*.

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

[10m] When he is assigned this task by his aunt, Tom Sawyer tricks the neighborhood boys to perform this task for him and pay him with trinkets.

ANSWER: **painting** a fence [or **whitewashing** a fence]

<American Literature>

2. In 1919, students in this country advocated for its independence in the March 1st movement. For 10 points each:

[10h] Name this “empire” that was proclaimed in 1897, 13 years before its annexation. A nationalist who supported this country assassinated its first “resident general,” Itō Hirobumi (“hee-roh-boo-me”).

ANSWER: **Korea** [or **Hanguk** or **Joseon**; accept Great **Korean** Empire or Empire of **Korea** or Daehan Jeguk or Taehan Jeguk; reject “North Korea” or “South Korea”]

[10e] Korea was annexed under the reign of this Japanese emperor, whose namesake “restoration” modernized Japan after centuries of Tokugawa rule. This emperor outlined their goals of governance in the Charter Oath.

ANSWER: Emperor **Meiji** (“MAY-jee”) [or **Meiji**-tennō; or **Meiji** the Great or **Meiji**-taitei or **Meiji**-seitei; or **Mutsuhito**; accept **Meiji** Restoration or **Meiji** Ishin]

[10m] Japan paved the way for Korean annexation by forcing Russia to recognize Japan’s claims to Korea in this treaty that ended the Russo-Japanese War.

ANSWER: Treaty of **Portsmouth**

<World History>

3. Tracks on this album include “Pharaoh’s Dance” and “Sanctuary.” For 10 points each,

[10h] Name this album that followed the artist’s previous record *In a Silent Way*. It was its lead artist’s first certified gold album and was pivotal in his development of fusion jazz with its electrification and rock and roll beat.

ANSWER: **Bitches Brew**

[10e] On *Bitches Brew*, this jazz trumpeter departed from the more traditional style of his 1959 record *Kind of Blue*.

ANSWER: Miles **Davis**

[10m] On both *Bitches Brew* and *Kind of Blue*, Davis pioneered a style of jazz named for this type of harmony. This type of harmony is based on scales like the Dorian, contrasting with tonal harmony based on major and minor scales.

ANSWER: **modal** jazz [accept **modal** harmony or **modes**]

<Other Fine Arts>

4. Like Branson, Missouri, a town in this state contains a museum built as a replica of the front half of the *Titanic*. For 10 points each:

[10m] Name this state whose capital contains a replica of the Parthenon designed by William Crawford Smith.

ANSWER: **Tennessee** [or **TN**] (The first line is about Pigeon Forge.)

[10h] An aptly named city in northwestern Tennessee contains a replica of this structure. This is the tallest structure replicated at the Window of the World park in Shēnzhèn (“shun-jun”), China.

ANSWER: **Eiffel Tower** [or **Tour Eiffel**] (The name of the Tennessee city is Paris.)

[10e] This Tennessee city contains a large glass pyramid currently occupied by Bass Pro Shops. This city is named for an ancient Egyptian capital.

ANSWER: **Memphis**

<Geography>

5. Answer the following about nebulas, for 10 points each:

[10e] In 1880, Henry Draper took the first-ever image of a nebula by photographing one in this constellation. This constellation is represented by a hunter whose namesake “belt” is formed by a line of three stars.

ANSWER: **Orion** [accept **Orion** Nebula; accept **Orion**’s belt]

[10m] The Horsehead and Coalsack nebulas appear “dark” due to a dense concentration of this material, which absorbs incoming light. The interstellar medium consists of gas and this material.

ANSWER: **dust** [accept cosmic **dust**; accept stard**ust**]

[10h] This type of ball-shaped nebula is formed when a dying red giant star sheds its outermost layers, leaving behind a white dwarf.

ANSWER: **planetary** nebula [prompt on **emission** nebula; prompt on **PN**]

<Other Science>

6. A false-flag attack on a radio station in Gleiwitz (“GLAI-vits”) provided the pretext for a German invasion at the start of this war. 10 points each:

[10e] Name this war that began with the Nazi invasion of Poland on September 1st, 1939.

ANSWER: **World War II** [or **WWII** or **Second World War**]

[10h] Once Poland had been defeated, the period of limited action on the German-French border from September 1939 to May 1940 was given this nickname.

ANSWER: **Phoney** War [accept **Sitzkrieg** or **Sitting** War or **Bore** War or **Drôle** de guerre]

[10m] The “Phoney War” ended with an invasion of France that forced the British to evacuate from this northern port city. Winston Churchill declared “we shall fight on the beaches” after a “miracle” evacuation from this city.

ANSWER: **Dunkirk** [accept **Dunkerque**; accept “Miracle of **Dunkirk**”]

<European History>

7. Answer the following about *samizdat*, or self-published dissident literature that was secretly distributed. For 10 points each:

[10h] This author wrote a posthumously published novel describing Professor Woland's visit to Moscow, which had censored portions that circulated as *samizdat*.

ANSWER: Mikhail **Bulgakov** [or Mikhail Afanasyevich **Bulgakov**]

[10m] Yuri is the protagonist of this Boris Pasternak novel, which circulated as *samizdat* in the USSR after being smuggled out and published abroad.

ANSWER: **Doctor Zhivago**

[10e] *Samizdat* appeared after the death of this Soviet leader, who targeted writers Osip Mandelstam and Isaac Babel in his purges. Mandelstam criticized this leader in an "epigram" named for him.

ANSWER: Joseph **Stalin** [or Joseph Vissarionovich **Stalin** or Ioseb Besarionis dze **Jughashvili**; accept "**Stalin** Epigram"]

<European Literature>

8. Answer the following about philosophical debates over the distinction between sex and gender, for 10 points each.

[10m] This thinker held that sex does not exist outside of the normative process of sex assignment and is therefore indistinguishable from gender in their book *Gender Trouble*.

ANSWER: Judith **Butler** [or Judith Pamela **Butler**]

[10e] This thinker's book *The Second Sex* gives more weight to innate biological sex traits, but ultimately concludes that the meaning of those traits is constructed and that therefore "one is not born, but rather becomes a woman."

ANSWER: Simone de **Beauvoir** [or Simone Lucie Ernestine Marie Bertrand de **Beauvoir**]

[10h] The category of "woman" is constructed non-sexually using the "gender" variant of this position, which denies the existence of universals. This position was advanced by William of Ockham.

ANSWER: **nominalism** [or word forms such as **nominalist** philosophy; accept gender **nominalism**]

<Philosophy>

9. Through his mother Bestla, Odin is descended from a primordial one of these beings named Ymir, whose body formed the cosmos. For 10 points each:

[10e] Name this race of beings that includes Loki's biological father, Fárbauti, and Surtr, who leads his armies against the gods at Ragnarök. They are called jötunn ("YUH-tinn") in Norse mythology.

ANSWER: **giants** [accept frost **giant**; accept fire **giant**]

[10m] Eddic accounts of this god reference his collective birth by nine jötunn mothers. Mimir's wisdom derives from drinking out of this watchman's Gjallarhorn every day at a well beneath Yggdrasil.

ANSWER: **Heimdall** [or **Heimdallr**; accept **Rig**; accept **Gullintanni**; accept **Vindlér**]

[10h] In his namesake saga, this character is conceived after the giantess Hljod ("HULL-yoth") delivers a golden apple to his parents. Later in that saga, Sigurd wins the sword Gram by pulling it out of a tree growing in this character's hall.

ANSWER: **Völsung** [or Völsungr; accept **Völsunga** saga or *Saga of the Völsungs*]

<Mythology>

10. There are both "static" and "kinetic" types of this force. For 10 points each:

[10e] Name this force that opposes motion, caused by the roughness of surfaces rubbing together.

ANSWER: **friction** [or **frictional** force; accept static **friction** or kinetic **friction**]

[10m] The amount of frictional force is proportional to this force that a surface exerts towards objects resting on it. On a flat surface, this force acts in the opposite direction to gravity.

ANSWER: **normal** force

[10h] Frictional force is classified as this type of force, as it decreases the energy in a system. The work done by this type of force is dependent on the path traveled.



ANSWER: **nonconservative** force [accept **dissipative** force]  
<Physics>

11. One of the earlier Shakespeare-inspired musical works was three songs on *The Tempest* once misattributed to Henry Purcell. Answer the following about later classical music inspired by Shakespeare, for 10 points each.  
[10e] This composer wrote incidental music to a Danish version of *The Tempest*. He also wrote *Finlandia* and the *Lemminkäinen Suite*.

ANSWER: Jean **Sibelius**

[10m] Unlike Verdi's *Falstaff*, which was inspired by *The Merry Wives of Windsor*, this British composer's symphonic poem *Falstaff* was inspired by *Henry IV, Parts 1 and 2*. He also wrote *Pomp and Circumstance*.

ANSWER: Edward **Elgar**

[10h] This composer wrote "overture-fantasias" for orchestra inspired by *Hamlet* and *Romeo and Juliet*. Both of those works were premiered by Nikolai Rubenstein, who also was meant to premiere this composer's first piano concerto but rejected it.

ANSWER: Pyotr Illych **Tchaikovsky**  
<Auditory Fine Arts>

12. Under the leadership of Yogi Adityanath, this Indian state became the first to pass a law against "unlawful religious conversion" through marriage as part of conspiracy theories about Muslims. For 10 points each:

[10h] Name this Indian state where "anti-Romeo squads" charged with limiting crime against women have been accused of harassment.

ANSWER: **Uttar Pradesh** [or **UP**]

[10e] The conspiracy accusing Muslim men of converting Hindu women via marriage is called the "love" type of this practice. This Arabic word is often translated in English as "holy war."

ANSWER: **jihād** [accept love **jihād** or Romeo **jihād**]

[10m] Muslim Indians have had their rights encroached upon under the rule of this political party led by Prime Minister Narendra Modi.

ANSWER: **BJP** [or **Bharatiya Janata** Party; reject "RSS" or "Rāṣṭrīya Svayamsevak Saṅgh"]  
<Current Events>

13. Answer the following about the "twilight zone" of the ocean, for 10 points each:

[10e] The twilight zone, which lies below the photic ("FOH-tik") zone, is the region where less than one percent of this phenomenon is present. Deep-sea organisms may generate this phenomenon through bioluminescence.

ANSWER: **light** [accept sun**light**; accept visible **light**; accept **photons**]

[10m] Sperm whales dive down to the twilight zone to feed on large examples of these animals, which maintain buoyancy with ammonium chloride and have a giant axon that facilitates jet propulsion.

ANSWER: **squids** [accept giant **squids**; accept colossal **squids**; accept **Decapodiformes**; prompt on **mollusks** or **Mollusca**; prompt on **cephalopods** or **Cephalopoda**; reject "octopus"; reject "decapod"]

[10h] Many organisms in the twilight zone feed on a form of organic matter that is known by this two-word term and falls down from the photic zone.

ANSWER: **marine snow** [prompt on marine **detritus**; reject "snow"]  
<Biology>

14. The majority in this Supreme Court case held that a New York law limiting the hours of bakers was unconstitutional. For 10 points each:

[10m] Name this case that names an “era” during which the Court struck down many economic regulations in favor of *laissez-faire* (“LEH-zay-FAIR”) economics.

ANSWER: **Lochner** v. *New York* [accept **Lochner** era]

[10e] In *Lochner*, the liberal John Marshall Harlan wrote this type of opinion, for which he was nicknamed. This type of opinion expresses disagreement with a majority or plurality.

ANSWER: **dissent** [or **dissenting** opinion; accept “the Great **Dissenter**”]

[10h] Another *Lochner* era case, *Hammer v. Dagenhart*, struck down a law regulating this practice that was passed less than a year earlier in the Keating–Owen Act.

ANSWER: **child labor** [or equivalents like **underage labor**]

<American History>

15. The seven truths of Jainism detail how eight types of karma keep this concept in bondage. For 10 points each:

[10e] Name this concept referred to by the Sanskrit words *jīva* and *ātman*. Jains and Hindus believe that by attaining *moksha*, this immortal aspect of a person is freed from *samsāra*.

ANSWER: **soul** [or **self**]

[10h] Before attaining *moksha*, Jains must first eliminate four “harmful” karmas, earning them this title that means “conqueror.” Theravāda adherents achieve a similarly named status by unbinding 10 worldly fetters.

ANSWER: **arihants** [accept **arhats** or **arahants**; or **jina**]

[10m] Bowing to arihants and four other supreme souls allows Jains to destroy their karma through one of these phrases called the *Ṇamōkār*. Counting these phrases used in meditation is the main use of mala beads.

ANSWER: **mantras** [or **mantram**; prompt on **prayers**]

<Religion>

16. A trilingual inscription at Ka’ba-ye Zartosht describes the military conquests of a ruler of this empire, including his victory at the Battle of Edessa. For 10 points each:

[10h] Name this empire that carved large rock reliefs at Naqsh-e-Rostam below an earlier dynasty’s tombs. This Persian empire’s rulers included Shah Shapur I.

ANSWER: **Sassanid** Empire [or **Sassanian** Empire, or **Neo-Persian** Empire, or **Empire of Iranians**, or **Ērānšahr**]

[10m] Shapur I’s “Great Inscription” describes his defeat of multiple Roman emperors in this century. The “crisis” of this century began with the assassination of Severus Alexander and ended with the accession of Diocletian.

ANSWER: **third** century C.E. [or **200s** CE; accept the Crisis of the **Third** Century]

[10e] Although Shapur I added “and non-Iran” to his predecessor’s title “King of Kings of Iran”, the new title was almost never included on these objects. Denominations of these objects, such as dinars, were produced at mints.

ANSWER: **coins** [prompt on **money** or **currency**]

<Other History>

17. In a satirical novel, one of these animals encounters the student Avalon Coldmoon and mocks the teacher Mr. Sneaze. For 10 points each:

[10h] Name these animals whose souls are harvested to build a magic flute by a man known as Johnnie Walker in another novel. A boy in that novel gains the ability to speak to these animals after the Rice Bowl Hill Incident.

ANSWER: **cats** [or **felines**; or **neko**; or **Felis catus**] (The novel in the first line is *I Am a Cat* by Natsume Sōseki.)

[10e] Nakata speaks to cats in a novel whose protagonist is named after this author. This author wrote about Gregor Samsa's transformation into an insect in "The Metamorphosis."

ANSWER: Franz **Kafka** [or František **Kafka**; accept **Kafka on the Shore** or *Umibe no Kafuka*]

[10m] This author of *Kafka on the Shore* wrote about a "Town of Cats" in a novel in which Aomame travels to an alternate dimension with two moons. In another of this author's novels, Toru Okada searches for his cat Mackerel.

ANSWER: Haruki **Murakami** [or **Murakami Haruki**] (The unnamed novels are *1Q84* and *The Wind-Up Bird Chronicle*.)

<World/Other Literature>

18. A traditional dress from this country hangs besides a school dress and an impaled figure in the painting *Memory, the Heart*. For 10 points each:

[10m] Name this home country of an artist who depicted herself in a painful metal corset in *The Broken Column*.

That artist's collection of folk dresses from this country is on display in the Blue House.

ANSWER: **Mexico** [or **México**; or United **Mexican** States or Estados Unidos **Mexicanos**]

[10e] This Mexican artist painted *The Broken Column* as one of many surreal self-portraits. This artist painted a double self-portrait in European and Tehuana dresses the year of her divorce with Diego Rivera.

ANSWER: Frida **Kahlo** [or **Frida Kahlo**; or Magdalena Carmen Frida **Kahlo** y Calderón]

[10h] In a mural by Rivera, Kahlo stands holding a yin-yang symbol and is overshadowed by one of these figures named La Catrina who wears a feathered serpent boa. José Guadalupe Posada created that one of these figures.

ANSWER: **skeletons** [or **esqueletos**; accept **calaveras** or **skulls**; prompt on **dead** people or los **muertos** or equivalents]

<Painting/Sculpture>

19. This element's carbonate is known as witherite. For 10 points each:

[10m] Name this alkaline earth metal whose compounds are often added to fireworks to produce an apple-green color.

ANSWER: **barium** [or **Ba**]

[10h] Barium chloride solution is often used as a test for the presence of this ion. A salt of barium and this ion is used as a contrast agent when performing X-rays on the gastrointestinal tract.

ANSWER: **sulfate** [or **SO<sub>4</sub><sup>2-</sup>** ("S-O-4-2-minus"); accept barium **sulfate**]

[10e] Barium sulfate is also a component of the fluid used to lubricate these devices. These machines contain a cone-shaped "bit" that bores through rocks to reach underground resources.

ANSWER: **drills** [accept **drill** bit; accept **drilling** fluid]

<Chemistry>

20. A 2019 novel by Jeanette Winterson intersperses stories about the transgender doctor Ry with scenes from an outing on the shore of this body of water. For 10 points each:

[10h] Name this body of water where a group of authors, including Lord Byron, had a friendly contest to write the best ghost story at the Villa Diodati during a rainy 1816 summer.

ANSWER: Lake **Geneva** [or Lac **Léman**; or **Genfersee**]

[10e] The competition on Lake Geneva resulted in Mary Shelley writing this novel about a mad scientist who uses electricity to revive a makeshift corpse.

ANSWER: **Frankenstein** [or **Frankenstein**; or, *The Modern Prometheus*]

[10m] For the contest, John Polidori wrote about the evil Lord Ruthven in a story titled for one of these beings. In a different novel, one of these beings is hunted by a team led by Jonathan Harker and Quincey Morris.

ANSWER: **vampire** [accept “The **Vampyre**”; prompt on Count **Dracula** by asking “what kind of creature is he?”; prompt on **monsters**]

<British Literature>