

FACTS

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PACKET 01

Canyon Crest A: (Jeffrey Qiu, Daniel Wang, Boopala Arul), with help from Jonah Reidel

TOSSUPS

1. **Though one of this party’s founders created a “united front” with the help of Comintern agents like Henk Sneevliet, this party later suppressed political dissidents after the deaths of at least ten thousand civilians in the 228 Massacre. In one civil war, this party launched five unsuccessful “encirclement campaigns”. One leader of this party adapted Henry George’s philosophy to form his (*) Three Principles of the People. Another leader of this party was kidnapped in the Xi’an incident and unified his country’s warlords in the Northern Expedition before losing a civil war against the Chinese Communist Party. For 10 points, name this party that evacuated to Taiwan under the leadership of Chiang Kai-Shek.**

ANSWER: **Kuomintang** [accept equivalents like **KMT** or **Nationalist Party of China** or **Guómíndǎng** or **Chinese Nationalists**; prompt on “Nationalists” or other partial answers]

2. **One form of this technique requires its subjects to be frozen in liquid ethane. Another form of this technique comes in tapping mode and contact mode varieties and utilizes an extremely sharp cantilever. The fluorescent form of this technique allows for z-stacking, allowing one to gain a greater depth of field. Sputter coating is used to coat samples for use in this technique in a thin layer of palladium and (*) gold, and microtomes are commonly used to cut samples into extremely thin slices before they undergo forms of this technique. In general, specimens are stained and coverslipped before undergoing this technique, whose optical form is limited by diffraction. For 10 points, name this technique used to magnify small things.**

ANSWER: **microscopy** [accept word forms; accept **cryo-em**, cryo-electron **microscopy**, atomic force **microscopy**, confocal **microscopy**, fluorescent **microscopy**, or electron **microscopy**]

3. *Description acceptable.* **Five poems about this place are set in Elgar’s Op. 37, a song cycle titled for *Pictures of this place*. In an orchestral work depicting this location, each movement quotes selections from *Leaves of Grass*. This place is the subject of Vaughan Williams’s first symphony. Movements titled “Moonlight” and “Sunday Morning” are among the four *Interludes* depicting this place that are often excerpted from Benjamin Britten’s opera (*) *Peter Grimes*. Another work depicting this location, completed while its composer was staying in Eastbourne, is structured as three “symphonic sketches” and includes the “Play of the Waves”. For 10 points, name this aquatic subject of Debussy’s *La mer*.**

ANSWER: the **sea** [accept equivalents; prompt on “water” by asking for a *location*]

4. **It’s not the United States, but an unnamed protagonist of a novel that takes place in this country flees to Los Angeles with “The General” and writes letters to the “Man”. In this country, the setting of the 2016 Pulitzer Prize-winning novel *The Sympathizer*, the death of Curt Lemon causes Rat Kiley to repeatedly shoot a water buffalo. In this setting of “How to Tell a True War Story”, Ted (*) Lavender dies while Lieutenant Jimmy Cross thinks of his lover Martha. Both of those works are found in Tim O’Brien’s *The Things They Carried*, which features American soldiers fighting in this country. For 10 points, name this Southeast Asian country that reunified after the 1975 Fall of Saigon.**

ANSWER: (Socialist Republic of) **Vietnam**

5. **A character in this show threatens Leon, whose girlfriend is an illegal immigrant, in order to save the waitressing job of a character who sometimes goes by “Sapphire.” In this show, a brick thrown through the main character’s window is later revealed to have been thrown by (*) Doug Stamper, but Marty Spinella is framed in order to end a strike of a teacher’s union. In this series, Congressman Peter Russo’s attempt to run for governor of Pennsylvania is ended when he gets drunk before a radio interview, and he is later murdered while passed out in his car. For 10 points, name this Netflix political thriller, starring Kevin Spacey as House Majority Whip Frank Underwood.**

ANSWER: House of Cards

6. **This author traced a tradition starting from troubadours and especially focusing on the *Romance of the Rose* in *The Allegory of Love*. This thinker contrasted *storge* [STORE-gay], *philia* [FEEL-ee-a], *eros*, and the “Godly” *agape* [UH-gah-PAY] in another book about love. The possibility that a certain figure could have been lying, insane, or God is the subject of this man’s namesake “trilemma.” He was led toward (*) Anglicanism by a Catholic fantasy writer with whom he formed the Inklings. The BBC invited this man to deliver a series of radio talks which became his most famous theological work. For 10 points, name this author of *Mere Christianity* and *The Chronicles of Narnia*.**

ANSWER: C.S. Lewis [or Clive Staples Lewis]

7. **One campaign in this war was defeated at the battles of Mesilla and Glorieta Pass. During this war, Horace Hunley bankrolled the construction of a pioneering submarine. In one crisis from this war, diplomats James Mason and John Slidell were captured aboard a British mail steamer in the (*) Trent Affair. One side in this war commissioned "blockade runners" after the "Anaconda Plan" restricted that side's attempts at “cotton diplomacy”. An indecisive battle in this war featured a ship built from the hull of the Merrimack and was the first battle between ironclads. For 10 points, name this war in which the USS Monitor and the CSS Virginia clashed at Hampton Roads.**

ANSWER: American Civil War

8. **It’s not Cologne, but a borough of this city was once the sister town of Cölln [KER-lin], which was incorporated into this city in 1710. The neighborhood of Kreuzberg [CROYTS-berg] is a center of both this city’s Turkish immigrant and LGBT culture. This city’s Tiergarten was founded as a hunting reserve for a dynasty of Electors who ruled from this city, the (*) Hohenzollerns. This city also features a memorial to the airlift that supplied it after World War II. The Potsdamer Platz was once bisected by this city's namesake wall. For 10 points, name this city whose notable attractions include the Brandenburg Gate and the Bundestag.**

ANSWER: Berlin

9. **In one story by this man, the postmaster Mikhail and a cook are the only people to attend the funeral of a stroke victim. In another work by this author, a confusing play that represents the devil’s eyes as two red dots is praised by Dr. Dorn; later in that work, Nina presents a medallion to (*) Trigorin. This author described Dmitri’s attempt to find Anna at a performance of *The Geisha* and how Serebryakov moves away with Yelena. Apart from *Lady with a Dog*, he ended another work with the sounds of axes and described Lopakhin’s purchase of Lyubov Ranevskaya’s estate. For 10 points, name this Russian playwright of *Uncle Vanya* and *The Cherry Orchard*.**

ANSWER: Anton Chekhov

10. **The Poincaré conjecture concerns an object that exists in this many dimensions. The sum of two terms with numbers raised to this power can be factored using Sophie Germain’s identity. Fermat’s two square Theorem states that all odd primes that are the sum of two squares must leave a remainder of one when divided by this number. Appel and Haken were aided by a (*) computer in proving a theorem named partially for this number. This is the highest degree for which there exists a general solution for solving polynomial equations, which was shown by Abel and Ruffini. This is also the number of faces on the simplest Platonic solid. For 10 points, name this smallest composite integer.**

ANSWER: four

11. **This author describes the smell of “The coming musk-rose, full of dewy wine” in one work and asks the titular object of another “What leaf-fring'd legend haunts about thy shape.” Percy Bysshe Shelley commemorated this man’s death in a poem that begins “I weep for Adonais” (*), and a work by this poet that describes a “Sylvan historian” and a “foster child of silence and slow time” proclaims “heard melodies are sweet, but those unheard are sweeter.” His most famous work tells the title creature “thou wast not born for death.” For 10 points, name this British poet best known for works such as *Ode On a Grecian Urn* and *Ode to a Nightingale*.**

ANSWER: John Keats

12. **In quantum mechanics, the kinetic energy operator of a particle is “negative h-bar squared multiplied by del squared divided by mass”, all multiplied by this constant. The relativistic Doppler shift is proportional to the quantity “one plus beta” over the quantity “one minus beta”, all raised to this constant (*) power. The moment of inertia through the axis of rotation of a solid disk is equal to this constant multiplied by the mass and radius squared. In classical mechanics, the distance traveled by a particle dropped in free fall is this constant multiplied by gravitational acceleration and time squared. For 10 points, the kinetic energy of a moving particle is equal to what fraction multiplied by mass and velocity squared?**

ANSWER: half [or one half or 0.5; accept mathematical equivalents]

13. **Although this organ develops within the gut, it is derived from mesenchymal tissue rather than endodermal tissue. Periarteriolar lymphoid sheaths compose much of one portion of this organ. This organ may be absent in patients with Ivemark syndrome, and it is enlarged in patients with Banti's syndrome. (*) Part of this organ is composed of cords of Billroth, which are rich in monocytes, and the marginal zone separates its two main tissue components. It's not the kidney, but this organ's Malpighian corpuscles are known to synthesize antibodies. Most notably enlarged in patients with mononucleosis--for 10 points--name this lymphoid organ consisting of red and white pulp, in which red blood cells are stored and destroyed.**

ANSWER: spleen

14. **One of this artist’s works contrasts the “old and new” of a city by showing traditional houses in the foreground and a skyscraper under construction in the background, while an abstract series by this artist titled *Equivalents* depicts clouds. Another work by this artist depicts a horse-drawn carriage making its way through the snow on the title street, (*) Fifth Avenue. This man founded the journal *Camera Work* as well as the gallery 291. This photographer’s most famous piece appears to be inspired by Cubism and depicts lower class passengers on a steamship. For 10 points, name this American photographer of *The Steerage* who started the Photo-Secessionist movement and took many photographs of his wife, Georgia O’Keeffe.**

ANSWER: Alfred Stieglitz

15. **Early artists in this artistic movement often trained under Andrea del Sarto. One of those artists painted a swooning Mary Magdalene in red directly below a greenish Christ descending from a massive cross. Another artist in this style painted *Joseph in Egypt*, as well as a colorful Deposition in which the cross is not visible. In addition to Rosso Fiorentino and (*) Jacopo Pontorno, a third artist in this movement painted a long-fingered Saint John in *The Vision of Saint Jerome*. That artist of a distorted circular self-portrait used a “figura serpentinata” to depict the Madonna with an unusually long neck. Parmigianino’s *Self Portrait in a Convex Mirror* exemplifies, for 10 points, what late Renaissance artistic movement known for its exaggerated and elongated figures?**

ANSWER: **Mannerism** [accept word forms; accept **Late Renaissance** before mention]

16. **In a novel written in this language, a man whose first three wives commit suicide tries to forget about his past in Europe. This language of *Season of Migration to the North* was also used to write a novel in which Arafa is blackmailed into helping the Chief Strongman. In another novel in this language, a law student is killed by a soldier during a protest. In that novel, Amina breaks her collarbone in a car accident, (*) leading her husband to punish her for leaving the house without permission. *Palace Walk*, *Palace of Desire*, and *Sugar Street* form a trilogy of novels written in this language. For 10 points, name this language of Naguib Mahfouz, the author of the *Cairo Trilogy*.**

ANSWER: **Arabic**

17. **A relic belonging to this deity is guarded by serpents at Coptos in a box of gold placed within four other boxes. Because this Egyptian deity was “thrice-great,” he was worshipped at a city called Hermopolis. This deity played a game of Senet to win a 72nd portion of Khonsu’s light. Often considered the father of Seshat, in Duat in the form of A’an he reported on the balance of the scales of (*) Ma’at, his usual consort. Two powerful spells were written in his namesake book. This god’s titles include “tongue of Ra.” The beak of his bird form was related to the crescent shape of the moon. For 10 points, name this god of wisdom and writing, represented with either a baboon or ibis’ head.**

ANSWER: **Thoth** [or **A’an** before mention; accept **Djehuty**; accept Book of **Thoth**]

18. **This country’s monarch lost much of his power after attempting to dismiss prime minister Carl Zahle during the Easter Crisis. A loss at one battle off this country’s coast led Admiral Jellicoe to exclaim, “There seems to be something wrong with our bloody ships.” This country lost a personal union with a nearby country in the 1814 Treaty of Kiel. In 1864, this country lost the region of (*) Schleswig-Holstein to Prussia and Austria but reclaimed part of it after World War I. During the Nazi occupation of this country, nearly all of its Jews were smuggled across the Oresund to Sweden, and its king Christian X apocryphally wore a yellow star in solidarity. For 10 points, name this Scandinavian country with capital at Copenhagen.**

ANSWER: Kingdom of **Denmark**

19. **This thinker differentiated duties which must always be followed from those that are contingent, calling them “perfect” and “imperfect.” This philosopher’s conception of duty requires one to be able to perform whatever they are morally obligated to, summarized by the phrase “ought implies can.” Benjamin Constant triggered him to write that, even to save someone from a murderer, one should never (*) lie. His *Metaphysics of Morals* expands on the *Groundwork* for it he wrote earlier, which advises one to act according to what pure practical reason tells him can be made a universalizable maxim. For 10 points, what deontologist formulated the categorical imperative and wrote *Critique of Pure Reason*?**

ANSWER: Immanuel **Kant**

20. **One biography of this man was written by the monk Notker the Stammerer. In one campaign, this man destroyed a sacred oak called the Irminsul in a war against King Widukind, and this man's conflicts with the Umayyad rulers to his empire's south led to his creation of the Spanish March and came to a head at the Battle of (*) Roncesvalles.** His more notable biographers include Einhard, and he made Alcuin of York the head of his court's school in Aachen, bringing about a "Renaissance" that shared its name with his dynasty. This man's grandsons divided his empire in the Treaty of Verdun. For 10 points, name this Frankish king who was crowned Holy Roman Emperor on Christmas Day in 800.

ANSWER: Charlemagne [accept Karl der Grosse, Carolus Magnus, Charles the Great, or Charles I of France; prompt on "Charles"]

BONUSES

1. Name some short-lived governments established by Americans. For 10 points each:

[10] While president of this republic, Mirabeau Lamar printed currency known as “redbacks”. This republic was created after victory at the Battle of San Jacinto and annexed to the US in 1845.

ANSWER: Republic of **Texas**

[10] The Committee of Safety, led by Lorrin Thurston, created this republic. Sanford B. Dole was its first and last president until William McKinley annexed it in 1898.

ANSWER: Republic of **Hawai'i** [do not accept “Kingdom of Hawaii”]

[10] This man nicknamed “the Gray-eyed man of destiny” took over Nicaragua’s government and ruled it for a year, a practice known as “filibustering”. He was defeated by a coalition led by Costa Rica.

ANSWER: William **Walker**

2. Either this man or his father Poeas lights Heracles funeral pyre, for which Heracles grants him his weapons. For 10 points each:

[10] Name this hero, stranded on the island of Lemnos because of his wounded foot. Odysseus and Diomedes rescue him after hearing from Helenus that they need his weapon to win the Trojan War.

ANSWER: **Philoctetes**

[10] Philoctetes was proficient with this weapon, which he uses with Heracles’ poisoned arrows.

ANSWER: **bow**

[10] Heracles comes down from Olympus to tell Philoctetes he should seek a son of this god to heal him. This father of Machaon and Podalirius was the son of Apollo and was a god of medicine whose temples contained non-venomous snakes.

ANSWER: **Asclepius** [or **Aesculapius**; or **Asklepios**; accept **Aesculapian snakes**]

3. This dance became well-known when Madonna released a single heavily inspired by it. For 10 points each:

[10] Name this freestyle dance that was inspired by modeling and Egyptian hieroglyphs. It originated in Harlem drag balls in the 1980s.

ANSWER: **vogue** [accept word forms, like **voguing**]

[10] In the form of voguing named for this object, performers walk with an exaggerated sway of the hips as if they were walking down this object in a fashion show.

ANSWER: **runwaying** [or **catwalking**]

[10] Voguing is a part of this broader genre of dance that rejects traditional styles such as ballet. Major figures in this form of dance have included Martha Graham and Merce Cunningham.

ANSWER: **modern** dance

4. Answer the following about early radicals in British history. For 10 points each,

[10] John Lilburne, a leader of the socialist Levellers, debated this victor of the English Civil War at Putney. This man commanded the New Model Army and later had Lilburne imprisoned.

ANSWER: Oliver **Cromwell**

[10] During this king’s reign, the Middlesex By-Election Controversy occurred over whether to seat the radical John Wilkes. This king is more notable for having lost the American Revolutionary War.

ANSWER: **George III** [prompt on “George”]

[10] John Ball, a radical cleric during this conflict, advocated for equality of women with the couplet “When Adam delved and Eve span, who was then the gentleman?”. One side during this conflict was led by Wat Tyler and Jack Straw.

ANSWER: **Peasants’ Revolt** [do not accept or prompt on “Peasants’ War”]

5. Answer the following about moments that are not the moment of inertia. For 10 points each:

[10] Given a probability density function, the first raw moment represents this quantity. For discrete probability distributions, it can be found by summing all possible products of the random variable and the corresponding probability.

ANSWER: **expected value** [or **expectation** value; accept arithmetic **mean**; prompt on “average”]

[10] For continuous probability distributions, the expected value is found by performing this operation from negative infinity to infinity on “x times P of x”, where P of x is the probability mass function. This operation finds the area under a curve.

ANSWER: definite **integral** [or definite **integration**]

[10] The third central moment of a probability distribution represents this quantity, which can roughly be interpreted as the side of the distribution with a longer tail. This quantity is “left” or “right” depending on the sign of its value.

ANSWER: **skewness** [accept word forms]

6. In this author’s most famous novel, a cat breaks a glass pickle dish. For 10 points each:

[10] Name this author of “Roman Fever” who ended a novel with the revelation that a sledding accident leaves a character and his lover terribly crippled.

ANSWER: Edith **Wharton**

[10] In the aforementioned novel, Ethan Frome first notices Mattie dancing while wearing a scarf of this color. A pony of this color titles a Steinbeck work that documents Jody and Carl Tiflin’s life on a Salinas Valley ranch.

ANSWER: **red** [or **cherry** or **scarlet**]

[10] After delivering some lumber to Andrew Hale, Ethan Frome notices one of these objects belonging to an ancestor who shares his name. The inscription on this object indicates the ancestor was married for 50 years, causing Frome to reflect on his own relationship with his wife Zeena.

ANSWER: **tombstone** or **gravestone** [accept equivalents]

7. This collection’s last movement, “Remembrances”, is a waltz adaptation of its opening “Arietta”. For 10 points each:

[10] Name this set of 66 short piano pieces, which include “March of the Trolls”, “Butterfly”, and “Wedding Day at Troldhaugen”.

ANSWER: **Lyrical Pieces**

[10] This composer of *Lyrical Pieces* depicted a seductress and a rising Moroccan sun in his first *Peer Gynt* Suite, which ends with “In the Hall of the Mountain King”.

ANSWER: Edvard (Hagerup) **Grieg**

[10] The dramatic timpani roll that opens Grieg’s piano concerto in this key was inspired by Schumann’s piano concerto in the same key. The relative major of this key is C major.

ANSWER: **A minor** [do not accept or prompt on “A major”]

8. Answer some questions about the azide functional group. For 10 points each:

[10] Azide consists of three of this element bonded together by two double bonds. This element composes over 70% of Earth's atmosphere, and is reacted with hydrogen gas to form ammonia in the Haber-Bosch process.

ANSWER: **nitrogen** [prompt on "N"]

[10] Rolf Huisgen names a click chemistry reaction in which an azide reacts with this other functional group to yield a 1,2,3-triazole. Their general formula is C_nH_{2n-2} [c sub n, h sub two n minus two] and they contain a sigma bond along with two pi bonds.

ANSWER: **alkynes**

[10] This element's azide is commonly used in airbags, as that compound decomposes and expands rapidly when heated, releasing nitrogen gas and this element.

ANSWER: **sodium** [or **sodium** azide; prompt on "Na"]

9. Answer some questions about restriction fragment length polymorphism, or RFLP. For 10 points each:

[10] RFLP is used to detect differences between different samples of this molecule. This molecule consists of adenine, guanine, cytosine, and thymine, and it comprises the genetic material of most organisms.

ANSWER: **DNA** [or **deoxyribonucleic acid**]

[10] Following RFLP, the resulting restriction fragments are separated using gel electrophoresis, transferred onto a nitrocellulose membrane, and hybridized with a fluorescent DNA probe in this process named for a British biologist.

ANSWER: **Southern** blot [or **Southern** blotting]

[10] RFLP is commonly used in conjunction with this other laboratory technique, which is used to amplify a sequence of DNA. Its procedure relies on the heat resistance of Taq polymerase.

ANSWER: **PCR** [or **polymerase chain reaction**]

10. One poem by Paul Verlaine describes how he is "pale as with pain" and "breath fails [him]" during this season. For ten points each:

[10] Name this time period that is described in another poem as a "season of mists and mellow fruitfulness".

ANSWER: **autumn** [accept **fall** and other equivalents.]

[10] Paul Verlaine, the author of "Autumn Song", was a member of this artistic and literary movement. This movement's other members included Arthur Rimbaud and Stephane Mallarme, and it focused heavily on metaphors and images.

ANSWER: **Symbolism** [or **Symbolist**]

[10] Rimbaud compared himself to a drunken one of these objects, which is "thrown...into the birthless air" despite being "as fragile as a May butterfly." W H Auden describes how the reflection of stars are "tossed" and "distorted" in a poem titled after this type of object.

ANSWER: **boat** [accept equivalents; accept "**The Drunken Boat**" or "**In a Boat**"]

11. Literature has played crucial roles in upholding human rights and addressing social issues. For 10 points each:

[10] In 2018, Turkish author Asli Erdogan [ER-doh-WAN] won this human rights award, given to those who fight for gender equality and basic rights. This award shares its name with the *first and last name* of the feminist author of *The Second Sex*.

ANSWER: **Simone de Beauvoir** Prize [do not accept or prompt on partial answer]

[10] This author earned a Pen/Faulkner award for detailing the life of the fictional reclusive author Bill Gray in *Mao II*. In this man's novel *White Noise*, Babette Gladney takes the drug Dylar to treat her fear of death.

ANSWER: Don **DeLillo**

[10] This semi-autobiographical Mario Vargas Llosa work lambasts the Peruvian dictator Manuel Odría and follows the minister Santiago Zavala and his chauffeur Ambrosio. It takes its title from a meeting near the title bar.

ANSWER: **Conversation in the Cathedral** [or **Conversación en la catedral**]

12. You may not be able to Uber everywhere, but there's other ways to get around the big city. For 10 points each:
[10] Buses known as colectivos are a fixture of this city's transport system, and are seen as a symbol of "porteño" identity. This capital of Argentina lies at the mouth of the Rio de la Plata, across from Montevideo.

ANSWER: **Buenos Aires**

[10] The routes taken by informal *matatu* buses in this city have been found to closely parallel other cities' official public transport networks. Several of those *matatus* serve this city's largest slum, Kibera, which is ethnically divided among the Kalenjin and Luo people.

ANSWER: **Nairobi**

[10] Bicycles influenced the design of this mode of public transport, varieties of which include Jakarta's "becak" [bay-CHAK]. These human-powered vehicles have been banned in Jakarta and other Southeast Asian capitals to make way for cars.

ANSWER: **rickshaw** [accept **pedicab**]

13. Following the death of its model, this work was painted based on a series of sketches. For 10 points each:

[10] Name this painting of a Dante character alongside a red dove and a poppy. Its model, Elizabeth Siddal, was the wife and frequent model of this painting's artist.

ANSWER: **Beata Beatrix**

[10] This artist of *Beata Beatrix* painted several other Dante-inspired works, as well as a portrait of a Roman goddess titled *Proserpine*. He also illustrated "Goblin Market," a poem by his sister Christina.

ANSWER: Dante Gabriel **Rossetti**

[10] Rossetti was part of a movement intending to return to the artistic style of the period preceding this other artist. This artist painted such works as *The Mond Crucifixion* and *The School of Athens*.

ANSWER: **Raphael** [or **Raffaello**; accept Raffaello **Sanzio** da Urbino]

14. Answer the following about China's early history. For 10 points each:

[10] Fu Hao was a consort of Wu Ding, the king who led this dynasty to its zenith. Fu Hao's tomb is one of the best preserved tombs from this dynasty.

ANSWER: **Shāng** dynasty

[10] The ruins of the Shang capital, near the city of Anyang, are filled with these objects. Used by the Shang for divination and sometimes extracted from tortoises, these objects contain the first recognizable examples of Chinese writing.

ANSWER: **oracle bones** [prompt on "bones" or "turtle bones"]

[10] The Shang dynasty ended after their defeat at the Battle of Muye [MOO ye]. The new Zhou dynasty invoked this doctrine, which claims that good rulers are blessed by divinity and poor rulers must be replaced as they have lost divine favor.

ANSWER: **Mandate of Heaven**

15. The number of auspicious dreams dreamt by Queen Trishala is disputed by sects of this religion. For 10 points each:

[10] Name this Indian religion whose ascetics take five great vows. It venerates 24 "ford-makers," or tirthankaras, including Mahavira, and emphasizes *ahimsa*, or non-violence.

ANSWER: **Jainism** [or **Jain** Dharma]

[10] The Digambara sect of the Jain faith is named for this practice of their monks. In the original Sanskrit, Digambara meant "sky-clad," a term now used to describe this ritual practice in Jainism, Wicca, and other religions.

ANSWER: (ritual) **nudity** [or anything about being **naked** or **not wearing clothes**]

[10] The supplementary *Sallekhana* vow concerns this Jain practice, which seeks to “thin out” the body and passions to destroy karma. Though easily transgressed by desiring any pleasure past, present, or future, it is sometimes done up to the point of death. Description acceptable.

ANSWER: **fasting** [or equivalents about **not eating** or drinking]

16. Why are all electrons the same? Answer some questions about a theory devised to explain this surprisingly non-obvious conundrum, for 10 points each:

[10] This physicist, along with his advisor John Wheeler, proposed the one-electron universe postulate, in which electrons are all identical because they are all the same electron. This man was later awarded the Nobel Prize for his fundamental work in quantum electrodynamics.

ANSWER: Richard Phillips **Feynman**

[10] Feynman and Wheeler proposed that one electron moving backwards and forwards through this four-dimensional entity is responsible for all of the universe’s electrons. Across this entity, electrons trace out world lines.

ANSWER: **spacetime** [accept **Minkowski space**; do not accept or prompt on partial answers]

[10] Electrons moving backwards through time are observed as these particles, which have the same mass as electrons, but opposite charge. One of them is found alongside an antiproton in the antihydrogen system.

ANSWER: **positrons** [prompt on “anti-electrons”]

17. The speaker of one of this author's poems listens to a song that “in [his] heart [he] bore, / Long after it was heard no more”. For 10 points each:

[10] Name the poet of “The Solitary Reaper”. He also wrote how “little we see in Nature...is ours” in “The World is Too Much With Us.”

ANSWER: William **Wordsworth**

[10] This poem by Wordsworth opens by noting that “five years have past” since he last visited the title location. It describes an abandoned church on the river Wye.

ANSWER: “Lines Composed a Few Miles above **Tintern Abbey**, On Revisiting the Banks of the Wye during a Tour. July 13, 1798”

[10] In work of this type titled “Intimations of Immortality”, Wordsworth described “a time when meadow, grove and stream”... “did seem / Apparelled in celestial light”. Another work of this type asks “If Winter comes, can Spring be far behind?”

ANSWER: **ode**

18. The city of Konya [CONE-yah] has it all: mosques, museums, and great-power struggles for supremacy. For 10 points each:

[10] The Sultanate of Rum, established by these people, was based at Konya. This Turkic dynasty won the Battles of Dandanaqan and Manzikert.

ANSWER: **Seljuks**

[10] After World War I, Konya was promised to this country by the Treaty of Sevres. This country’s namesake front of World War I contained the Battles of the Isonzo, Caporetto, and Vittorio Veneto, as well as several more defeats for its incompetent chief of staff, Luigi Cadorna.

ANSWER: **Italy**

[10] Konya was the site of an 1831 battle between an Ottoman force and Ibrahim Pasha, the son of this rebellious Egyptian leader of Albanian origin who named the dynasty that ruled Egypt until 1952.

ANSWER: **Muhammad Ali**

19. Answer the following about memes. For 10 points each:

[10] Memes are usually referred to as “dank”, a practice that KnowYourMeme partially traces to this website’s user xEphr0m. On this website, which contains communities like r/The_Donald, people can receive “karma” through upvotes and downvotes.

ANSWER: **Reddit.com**

[10] The Anti-Defamation League declared a meme of one of these animals a hate symbol in 2016. Alex Jones doesn’t like ‘em putting chemicals in the water to turn these animals gay.

ANSWER: **frogs** [accept **Pepe**]

[10] You can learn about “meme fear” from Susan Blackmore’s *The Meme Machine*, which builds on this thinker’s coinage and subsequent conception of the meme as a replicating unit of cultural information, analogous to the gene.

ANSWER: (Clinton) Richard **Dawkins**

20. This man collaborated with Merrill Carlsmith on an experiment Carlsmith adapted into his “forbidden toy” experiment. For 10 points each:

[10] Name this psychologist who had people turn boring knobs for either one or twenty dollars. He also wrote *When Prophecy Fails* to explain the workings of cognitive dissonance.

ANSWER: Leon **Festinger**

[10] This coiner of “role model” summarized how making a prediction can lead to its fulfillment, as in the case of minority students performing more poorly on standardized tests when told minority students are bad at tests, with the phrase “self-fulfilling prophecy” in his book *Social Theory and Social Structure*.

ANSWER: Robert K(ing) **Merton** [do not accept “Robert C(ox) Merton”]

[10] David Rosenhan explained how these institutions could make their patients insane by treating them as if they were insane, a self-fulfilling prophecy explained in his “On Being Sane in Insane Places.” Rosenhan sent people faking schizophrenia to these places, where they easily entered but could not easily leave.

ANSWER: mental **asylums** [accept equivalents like insane **asylums** / **asyla**, psych **wards**, **sanatoriums**/ia, mental **hospitals**, and psychiatric **hospitals**; prompt on “institution(s)"]

