

2022 SHOW-ME

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Packet 5

1. **This material is responsible for so-called “zodiacal light” around the Sun’s ecliptic. In space, this material forms through condensation due to stellar winds and supernovas. Absorption of light by this material causes interstellar reddening. In 2004, a namesake probe sampled this material from the comet Wild 2 [vilt two]; comets are made of (*) ice mixed with this material. The interstellar medium is a mixture of gas and this material. On the surface of Mars, this material is dispersed by vortices called its namesake “devils.”** For 10 points, name this fine, dry material that is often blown by wind.

ANSWER: **dust** [accept cosmic **dust** or interstellar **dust**; accept *Stardust* probe/mission; accept **dust** devils]
<Astronomy — June Yin> [Ed.]

1. According to an apocryphal story, J.R.R. Tolkien once said that no good fantasy story had one of these objects. For 10 points each:

[H] Name these objects, one of which grows from a bar of iron thrown by Queen Jadis. Lucy later meets Mr. Tumnus next to one of these objects.

ANSWER: a **lamppost** [or a **street lamp**; prompt on **lamp**]

[E] The beginning of this land is marked by a constantly-burning lamppost. The Pevensie siblings find the entrance to this magical land in their wardrobe in a C.S. Lewis novel.

ANSWER: **Narnia** [accept *The Chronicles of Narnia: The Lion, The Witch, and the Wardrobe*]

[M] Lewis’s first work of fiction was a parody of this novel. Christian’s struggles with the Great Despair while trying to reach the Celestial City in this novel have been compared to *Narnia*’s own Christian meanings.

ANSWER: *The **Pilgrim’s Progress***

<Long Fiction — Joy An> [Ed. Ganon Evans]

2. **Bruce Reinhart, who approved an action at this place, was criticized by Marco Rubio for donating to Barack Obama. An action at this place prompted a response that the government could have “asked us to put an additional lock on a certain area - DONE!” Judge Aileen Cannon controversially approved a motion for a special master after an action at this place. In (*) August 2022, the Justice Department unsealed a search warrant used in an action at this place. Violations of the Espionage Act are among 11 sets of classified documents retrieved from a raid on this property. For 10 points, name this Palm Beach, Florida residence of a former president.**

ANSWER: **Mar-a-Lago** [or **Mar-a-Lago Club**; accept uniquely specifying descriptions like **Trump**’s Palm Beach **mansion** but prompt on ambiguous descriptions of **Trump**’s **house** or synonyms]

<Current Events — Andrew Gao> [Ed. Connor Lee]

2. An adaptation of a piece titled for this animal plays when Samsung washing machines finish their load. For 10 points each:

[H] Name this title animal of a piece integrated into a piano quintet in A major, whose voice line changes from major to minor after a fisherman catches this animal.

ANSWER: **trout** [or The **Trout**; accept the **Trout** Quintet; accept Die **Forelle**; prompt on **fish**]

[E] This composer worked variations on Die Forelle [dee for-ELL-uh] into his Trout Quintet. Because this composer only wrote two movements of his eighth symphony, it is called the Unfinished Symphony.

ANSWER: Franz **Schubert**

[M] As Schubert's Die Forelle sets a poem by the unrelated Schubart, it is this type of piece usually written for solo voice and piano. His *Der Erlkönig* and *Gretchen at the Spinning Wheel* are also this type of piece.

ANSWER: **lieder** [leeder] [or **songs**]

<Auditory Fine Arts — Joy An> [Ed. Ganon Evans]

3. **This leader's slogan "eradicate poverty" was mocked as "eradicate the poor" amidst this leader's "urban renewal" which saw the destruction of the Turkmen Gate. This leader conducted the Smiling Buddha nuclear bomb tests at Pokhran. During this leader's tenure, the Anandpur Resolution evolved into the demands of the (*) Khalistan movement. This leader's son oversaw mandatory vasectomies after a third child during a period called the Emergency. After ordering the destruction of the Golden Temple at Amritsar, this daughter of Jawaharlal Nehru was assassinated by her Sikh bodyguards. For 10 points, name this only female prime minister of India.**

ANSWER: **Indira Gandhi** [prompt on **Gandhi**; reject "Rajiv Gandhi"; reject "Mohandas Gandhi" or "Mahatma Gandhi"]

<World History — Ganon Evans> [Ed. Louis Li]

3. The aesthetic idea of *wabi-sabi* in asymmetric designs guided the creation of one of these locations at Ryōan-ji. For 10 points each:

[H] Name these locations observed from a deck called a *hojo*. Raking patterns like scrolls and waves give gravel in these locations the appearance of rippling water.

ANSWER: Japanese **rock gardens** [or **Zen gardens**; or **stone gardens**; or **karensangui**; or **dry gardens**; or dry **landscapes**; prompt on **gardens**]

[E] Ryōan-ji's subtle arrangement like a tree may have appealed to monks studying how this figure achieved Enlightenment after sitting under the Bodhi Tree. Followers of this figure recognize the Four Noble Truths.

ANSWER: The **Buddha** [or **Siddhartha Gautama**]

[M] Zen Buddhism branched off from this school which preaches that people should stay in samsara, become bodhisattvas, and help other people, unlike arhats in the Theravada School.

ANSWER: **Mahayana** Buddhism

<Religion — Vincent Wang> [Ed. Ganon Evans]

4. **The first of these pieces has an Allegro ending mimicking a bagpipe dance and was arranged for flute by Jean-Jacques Rousseau. One of these pieces in F Major is made of ritornellos representing the death of a stag and hunters "fired up by Bacchus's liquor." Rapid sixteenth notes in the second of these pieces' Presto movement evoke a (*) thunderstorm. Pizzicato strings represent rain on a window in one of these pieces, derived from a series of sonnets written by its composer. *The Contest Between Harmony and Invention* contains, for 10 points, what violin concertos by Antonio Vivaldi that include "Autumn" and "Winter?"**

ANSWER: **The Four Seasons** [accept *Le quattro stagioni*; prompt on **violin concertos**; prompt on **Vivaldi violin concertos**; prompt on *The Contest Between Harmony and Invention* until mention]

<Auditory Fine Arts — Ganon Evans> [Ed.]

4. Along with an army under the White Banner, armies that used banners of this color were the most prestigious in the Manchu Army. For 10 points each:

[M] Name this color that partially names a Han Dynasty peasant revolt led by the Taoist mystic Zhang Jue [jung jway].

ANSWER: **yellow** [Accept **Yellow** Turban Rebellion]

[E] A dragon on a yellow field was the flag of this Chinese dynasty. Puyi was the last emperor of this dynasty, which was succeeded by the Republic of China.

ANSWER: **Qing** [cheeng] dynasty [reject “Qin [chin]”]

[H] In modern times, the color yellow in China has been associated with these objects used by Hong Kong protesters. These namesakes of a 2014 “Movement” have been used to shield protesters from tear gas.

ANSWER: **umbrellas** [or **parasols**; accept Yellow **Umbrella** Movement]

<World History — Connor Lee> [Ed. Louis Li]

5. **At the end of a work by this author, a grave is found underneath a tearoom occupied by dock workers. In a different story by this author, a man calls a gatekeeper “insatiable” after the gatekeeper says he can pass but “Not now.” In a short story by this author, the explorer and the Commandant watch the execution of a condemned man. In that work, the words (*) “BE JUST” are inscribed on the Officer’s back.** This author of “In the Penal Colony” wrote about the accused man Josef K as well as a character who wakes up and finds he has transformed into an insect. For 10 points, name this author of *The Trial* and *The Metamorphosis*.

ANSWER: Franz **Kafka**

<Mixed Literature — Braden Booth> [Ed. Joel Miles]

5. This crop’s wild ancestor, teosinte [tee-oh-SIN-tee], has only 5 to 10 seeds in each pod. For 10 points each:

[M] Name this staple crop in the genus *Zea* [ZEE-uh], a member of the Three Sisters. Types of it include “field” and “sweet.”

ANSWER: **corn** [or **maize** or *Zea* **mays**]

[E] In the U.S., corn is often processed into a type of syrup “high” in this sugar that is sweeter than glucose. As its name suggests, it is common in fruits.

ANSWER: **fructose** [accept high-**fructose** corn syrup]

[H] While studying inheritance in corn, Barbara McClintock discovered these genetic elements that include LINES [lines] and SINES [sines]. They make up about 50 percent of the human genome.

ANSWER: **transposons** [or **transposable** elements or **jumping genes**]

<Biology — June Yin> [Ed.]

6. **Rogyapa destroy these objects and mix them with tsampa flowers after the Tibetan ritual of *jhator*. A plate of koliva with a candle is placed near these objects and the Trisagion is sung in Eastern Orthodox rituals. Tears [tares] called keriah are made by Jews in a white cloth covering these objects during the week-long period of (*) *shiva*.** The demon Nasu inhabits these things when they are placed inside Towers of Silence by Zoroastrians. The Rite of Committal is administered at Christian events centered on these objects, which may be followed by a wake. For 10 points, name these objects central to religious cremations or burials.

ANSWER: **corpses** [or dead **bodies**; accept synonyms such as **dead people**; accept **skeletons**; accept **bones**]

<Religion — Ganon Evans> [Ed.]

6. A hellhound in this novel transforms into a small dog per the wishes of the Antichrist, after which he receives the name Dog. For 10 points each:

[H] Name this novel about the end of the world, which opens with a conversation between the angel Aziraphale and a snake named Crawley right after the fall of man.

ANSWER: **Good Omens**

[M] Good Omens is a collaboration between Neil Gaiman and this author. A flat planet balanced on four elephants balancing on a turtle moving through space is the setting for this author's *Discworld* series.

ANSWER: Terry **Pratchett**

[E] Gaiman's works in this genre include a book where the Other Mother tries to convince the title girl to sew buttons into her eyes, *Coraline*. Other books in this genre include *The Very Hungry Caterpillar* by Eric Carle.

ANSWER: **children**'s books [accept reasonable equivalents such as books for **children**; accept **children's literature**; accept **kiddie lit**]

<Other — Joy An> [Ed. Ganon Evans]

7. **Thomas Clarkson published a list of people who supported this goal, including its “godfather,” Granville Sharp. Isabel the Redemptress accomplished this goal with a law that succeeded the Rio Branco Law. Supporters of this goal grew after the case *Somerset v. Stewart*, and wore medallions of a kneeling man created by Josiah Wedgwood. The Saints organized Royal Navy blockades in support of this goal while led by William (*) Wilberforce. While Pedro II [“the second”] was in Europe, this goal was accomplished by Brazil's Golden Law. For 10 points, name this goal accomplished in the U.S. with the Thirteenth Amendment and the Emancipation Proclamation.**

ANSWER: **abolition** of **slavery** [accept word forms indicating **ending slavery**; prompt on **abolition** with “Of what?”]

<Other History — Ganon Evans> [Ed. Louis Li]

7. Barnett Newman created a series of paintings titled "Who's Afraid of [these three colors]." For 10 points each, [M] Name these three colors that Piet Mondrian made many "Compositions" with. In addition to gray and white, Mondrian's *Broadway Boogie Woogie* uses these three colors.

ANSWER: **red**, **blue**, and **yellow** [accept in any order; prompt on the **primary colors**]

[E] Though he once used triangles, Mondrian refused to use shapes other than this one in his paintings. Kazimir Malevich's *White on White* depicts one of these shapes, which is a typical shape for a painting's frame.

ANSWER: **squares** [accept **rectangles**; prompt on **quadrilaterals**]

[H] Despite not using black, *Broadway Boogie Woogie* exemplifies this Dutch art movement that advocates for restricting visual compositions to horizontal and vertical elements while only using black, white, and primary colors.

ANSWER: **De Stijl** [“duh STYLE”] [accept **Neoplasticism**]

<Visual Fine Arts — Vincent Wang> [Ed. Gabe Forrest]

Note to Moderators: Read the answerline carefully.

Note to Players: Specific Term Required.

8. **Before Vatican II [two], bishops would perform this action at the end of the Rites of Confirmation. In the film *In the Heat of the Night*, Sidney Poitier [pwah-tee-AY] performs this action on a racist man in a greenhouse. This non-popping action names the technique of using the knuckles to hit guitar strings. At the Council of Nicaea, St. Nicholas performed this action on the heretic Arius. During the Sicily Campaign, (*)** George Patton performed this action multiple times on shell-shocked soldiers. A man proclaimed “Keep my wife’s name out of your mouth!” at the 2022 Oscars after performing, for 10 points, what open-hand hit that Will Smith used on Chris Rock?

ANSWER: **slapping** [accept word forms such as a **slap**; accept a percussive **slap**; prompt on **smacking**; prompt on **hitting** before “hit”; prompt on **punching** before “Sicily Campaign” with “What similar action with an open hand was performed instead?”]

<Other — Ganon Evans> [Ed.]

8. In a story by this author, the main character successfully sneaks a frog into his bread-and-milk and pretends to be interested in a gooseberry garden in order to get into the lumber room. For 10 points each:

[M] Name this author with a one-word pen name. In another story by this author, Mr. Nuttel is terrified to see three hunters who supposedly died in a bog walking back to the house through the title ‘Open Window’.

ANSWER: **Saki** [or Hector Hugh **Munro**]

[H] In this Saki story, Ulrich and Georg reconcile a familial feud after being trapped under a tree. They make bets on whose men will arrive to rescue them first, but end up being discovered by wolves at the end of this story instead.

ANSWER: “The **Interlopers**”

[E] In another Saki story, the Quabarls insist that children should be introduced “to the life-stories of men and women who really lived, not merely committing a mass of names and dates to memory” when studying this subject. Herodotus is known as the “father” of this discipline.

ANSWER: **history** (The unnamed story is “The Schartz-Metterklume Method.”)

<Mixed Literature — Joy An> [Ed. Joel Miles]

9. **This character attempts to defend herself with a broken wine bottle from a man who calls her “the Queen of the Nile.” This character exclaims “I don’t want realism! I want magic!” after another character tears away paper that was obstructing a light bulb. This character’s husband commits suicide while she dances the Varsouviana polka. This character turns on a radio, interrupting her brother-in-law’s (*) poker game. This character states “I have always depended on the kindness of strangers” after being raped by Stanley. For 10 points, name this sister of Stella Kowalski, the protagonist of *A Streetcar Named Desire*.**

ANSWER: **Blanche DuBois** [accept either underlined portion]

<Drama — Neal Joshi> [Ed. Joel Miles]

9. One of these materials that could exist at room temperature would have immense applications for electronics. For 10 points each:

[E] Name these materials that experience zero electrical resistance.

ANSWER: **superconductors**

[H] The first superconductor created above the boiling point of nitrogen was an alloy of this rare-earth element along with barium, copper, and oxygen.

ANSWER: **yttrium** [or **Y**; accept **yttrium** barium copper oxide; prompt on **YBCO**]

[M] In 2020 scientists claimed to have made a room-temperature superconductor by reacting carbon, sulfur, and hydrogen in an extremely high-pressure “anvil cell” that uses two crystals of this material.

ANSWER: **diamond** [accept **diamond** anvil cells; prompt on **DACs**]

<Physics — June Yin> [Ed.]

10. **These structures make up the iridescent “combs” of comb jellies. *Vorticella* [vor-tih-SELL-uh] and *Stentor* belong to a phylum named for these structures in which cells have two differently sized nuclei. The “primary” type of these structures is involved in cell signaling rather than movement and contains a “nine plus zero” arrangement of (*) microtubules [micro-TUBE-yoolz]. Other examples of these structures push dirt and mucus out of the human respiratory tract through a continuous beating motion, which is contrasted with the whip- or corkscrew-like motion of flagella [fluh-JEL-uh]. For 10 points, name these cellular structures that resemble hairs.**
ANSWER: **cilia** [SIL-ee-uh] or **cilium** [accept primary **cilia** or motile **cilia**; accept **ciliates** or **Ciliophora**]
<Biology — June Yin> [Ed.]

10. Answer the following about American paratroopers, for 10 points each:

[E] Aubrey Eberhardt began the tradition of shouting the name of this Apache chief in reference to him jumping off a cliff near Fort Sill.

ANSWER: **Geronimo** [or **Goyaałé**]

[M] The 101st Airborne Division was deployed to protect this group of students who were barred from entering a Southern high school by Orval Faubus’s National Guard.

ANSWER: **Little Rock Nine**

[H] During Operation Torch, paratroopers attacked Vichy forces in the *eastern* neighbor of this country to provide support for Operation Goalpost. This country was the first to recognize the United States under Mohammed III.

ANSWER: **Morocco**

<American History — Ganon Evans> [Ed. Louis Li]

11. **The height of buildings in this city is restricted to its Mount Royal. A 103-foot LED cross sits on top of a mountain that gives this city its name. A museum called the “Biosphere” was designed for an event in this city. During winter people here traverse the “Underground City,” a tunnel network formally called RÉSO. An apartment building made of concrete cubes called (*) Habitat 67 was designed by Moshe Safdie for Expo 67 in this city. This city, which hosted the 1976 Summer Olympics, is home to McGill University. This city sits at the confluence of the St. Lawrence and Ottawa Rivers. For 10 points, name this most populous city in Quebec.**

ANSWER: **Montréal**

<Geography — Andrew Gao> [Ed. Ganon Evans]

11. The washcoat in these components is often made of oxides of aluminum, titanium, or silicon. For 10 points each:

[M] Name these automobile components that use a platinum-based catalyst to turn toxic gases from the engine into less-toxic pollutants.

ANSWER: **catalytic converters**

[E] Two-way catalytic converters facilitate this type of reaction that creates carbon dioxide from carbon monoxide. Electrons are *lost* during this type of reaction, in contrast to reduction.

ANSWER: **oxidation** [or **oxidizing** or **oxidized**]

[H] A tetraethyl compound with this metal at its center causes catalyst poisoning in catalytic converters, leading to fuels using the compound to be phased out in the 1970s.

ANSWER: (tetraethyl) **lead** [prompt on **TEL**]

<Chemistry — Neal Joshi> [Ed. June Yin]

12. This artist depicted a banner reading “beauty adorns virtue” on the back of a portrait. Giovanni Ambrogio partially painted an artwork by this artist which hangs in London’s National Gallery and depicts a grotto. One of this artist’s paintings depicts Cecilia Gallerani holding an animal that alludes to her pregnancy. A painting of Ginevra de’ Benci is the only one in the Americas by this artist of (*) *Lady with an Ermine*. A winding road appears behind Francesco del Giocondo’s wife in a portrait by this artist whose body language appears to always face the viewer. For 10 points, name this artist of the *Madonna of the Rocks* and the *Mona Lisa*.

ANSWER: Leonardo da Vinci [accept either underlined; begrudgingly accept Da Vinky?]

<Visual Fine Arts — Braden Booth> [Ed. Gabe Forrest]

12. In this movie, a character’s parents are turned into pigs after eating food from a seemingly empty restaurant in an abandoned amusement park. For 10 points each:

[M] Name this only non-English-language film ever to win Best Animated Feature. In this Studio Ghibli film, Chihiro finds a bathhouse for ghosts and meets the dragon Haku.

ANSWER: Spirited Away [or *Sen to Chihiro no Kamikakushi*]

[E] The Ghibli film *Porco Rosso* centers on a bounty hunter with this profession cursed to be a pig. Tom Cruise’s character has this profession in *Top Gun: Maverick*.

ANSWER: fighter pilot [accept aviator; accept dogfighter]

[H] The music for most Studio Ghibli films is by this composer, known for pieces such as “Summer” from *Spirited Away* and “Merry-Go-Round of Life” from *Howl’s Moving Castle*.

ANSWER: Joe Hisaishi

<Popular Culture — Gigi Chen> [Ed. Ganon Evans]

13. The viability of a connection between collected data and one of these things is tested by the Andersen-Darling test. If two of these things are similar, a Q-Q plot will resemble the line $y = x$. Bernoulli names one of these things that represents a single trial of another one. The (*) z-score of a value is expressed in terms of the standard deviation of one of these things. About 68 percent of the sample population is one standard deviation from the mean in one of these things shaped like a bell. For 10 points, name these things used to evaluate data, a “normal” one of which is sometimes named after Gauss.

ANSWER: probability distribution [or probability density functions; or pdfs; accept Bernoulli, binomial, Gaussian, normal, or any other type of distribution; accept bell curve before “bell”; prompt on random variables with “what property of the variable is being examined?”; prompt on quantiles]

<Math — Yash Mandavia> [Ed. Joy An]

13. In a novel from this country, Sybylla Melvyn turns down Harold Beecham because she’s convinced that her ugliness will keep him from ever loving her as she fails to get the title *Brilliant Career*. For 10 points each:

[M] Name this home country of Miles Franklin. Oskar and Lucinda bet over whether they can move a glass church across this country in a novel by one of its authors, Peter Carey.

ANSWER: Australia [or Commonwealth of Australia]

[H] Carey used the character Bob McCorkle to mirror the controversy surrounding Ern Malley, a poet with this trait, in a novel titled *My Life as a person* with this trait.

ANSWER: they’re fictional [accept descriptions like they don’t exist or are made up; accept *My Life as a Fake*]

[E] Carey’s novel *Jack Maggs* is a retelling of *Great Expectations*, a novel by this author who also wrote *Oliver Twist*.

ANSWER: Charles Dickens [or Charles John Huffan Dickens]

<Long Fiction — Rachel Ezrielev> [Ed. Joel Miles]

14. **Dozens of these locations were designed to resemble a bat by Thomas Kirkbride. John Cockerill sponsored a book about one of these locations on Blackwell’s Island. Walter Freeman and James Watts developed a variation of an Egas Moniz invention at these locations that were used on Rosemary Kennedy. The first public one of these locations separated from prisons was established in Harrisburg by (*) Dorothea Dix.** An exposé about “10 Days” in one of these locations on New York’s Roosevelt Island was written undercover by Nellie Bly. For 10 points, what facilities commonly performed lobotomies and electroshock therapy?

ANSWER: asylums [or mental asylums; or insane asylums; or lunatic asylums; accept mental hospitals; accept psychiatric hospitals; accept lunatic hospitals; accept psychiatric wards; accept Ten Days in a Mad-House or madhouses; prompt on hospitals]

<American History — Ganon Evans> [Ed. Louis Li]

14. Christina Sharpe used the term “ethics of care” to describe this album’s tributes like “Open Letter to Duke.” For 10 points each:

[H] Name this 1959 album by a notoriously grumpy jazz bassist. This album includes an elegy for the saxophonist Lester Young called “Goodbye Pork Pie Hat.”

ANSWER: Mingus Ah Um

[E] 1959 saw the release of several other iconic jazz albums, including this musician’s *Kind of Blue*. This trumpet player arranged the piece *Concierto de Aranjuez* for his album *Sketches of Spain*.

ANSWER: Miles Davis

[M] This Dave Brubeck album was also released in 1959. Unorthodox time signature choices in this album include the 9/8 opening of “Blue Rondo à la Turk” and a track entirely in 5/4 [five-four], “Take Five.”

ANSWER: Time Out

<Other Fine Arts — Joy An> [Ed. Ganon Evans]

15. **A character in this novel who sees the “red, eye-like glow” of a campfire across the river discovers ants covering a corpse in a chapel-like forest. That character in this novel justifies his decisions by throwing a pine cone at a squirrel. The protagonist of this novel, who later bears the flag of a bunch of “mule drivers” and “mud diggers,” is hit in the head with the butt of a (*) rifle. The “tattered man” is abandoned by a character who also deserts the 304th Regiment at the Battle of Chancellorsville in this novel. For 10 points, Jim Conklin dies in what novel about Henry Fleming during the Civil War, by Stephen Crane?**

ANSWER: The Red Badge of Courage

<Long Fiction — Andrew Gao> [Ed. Joel Miles]

15. Wine-drunk monks would pee on this good before it was compressed as a damp paste in the process of corning. For 10 points each:

[M] Name this good possibly introduced to Europe after the Battle of Mohi. Robert Catesby fled London after 36 barrels of this good were discovered under Parliament on November 5th, 1605.

ANSWER: gunpowder [accept the Gunpowder Plot]

[E] The Gunpowder Plot was an attempt to kill the first Stuart king with this name, who commissioned an eponymous English translation of the Bible.

ANSWER: James [accept James I [“the first”]; accept King James Bible]

[H] An interactive exhibit in this location shows where Guy Fawkes confessed his participation in the Gunpowder Plot. Richard of Shrewsbury and Edward V were murdered in this location near the end of the War of the Roses.

ANSWER: Tower of London [prompt on the Tower; prompt on Princes in the Tower]

<European History — Ganon Evans> [Ed. Louis Li]

16. **One commander revived the use of decimation during a rebellion of these people. Under Decimus, a group of these people hid in the Theater of Emperor Commodus. Secutors and Murmillos were two types of these people, which contrasted with the trident and net-wielding retiarii. The *pollice verso* was a (*) thumbs-down signal given to these people. The Third Servile War began under an escaped one of these people named Spartacus. Titus sponsored the mass killing of lions and rhinos by these people in the Flavian Amphitheater. For 10 points, name these slave warriors who fought in the Colosseum.**

ANSWER: **gladiators** [prompt on slaves with “What specifically was their job?”]
<European History — Ganon Evans> [Ed. Louis Li]

16. When she’s not flying around in a mortar and pestle, Baba Yaga lives in a hut with the legs of this animal. For 10 points each:

[H] Name this animal, one of whom tricks Reynard the Fox into opening his mouth to taunt in the Nun’s Priest’s Tale.

ANSWER: **chicken** [accept **roosters**; accept **fowls**]

[M] The Slavic figure Koschei [kuh-SHAY] hides his soul inside a needle inside an egg inside a duck inside a hare inside a chest on a deserted island to maintain this trait. Tantalus tried to steal ambrosia and nectars, which grant this trait.

ANSWER: **immortality** [accept word forms such as being **immortal**; accept equivalents such as **not dying** or **living forever**; accept being **deathless**]

[E] In Polish and Hungarian folklore, cockatrices and basilisks hatch from chicken eggs and kill people in this manner. Staring into Medusa’s eyes caused this fate in Greek myth.

ANSWER: turning to **stone** [accept obvious equivalents; accept **petrification**; prompt on death or dying]
<Mythology — Ganon Evans> [Ed.]

17. **This film’s animated opening uses spirographs made from the movement of a pendulum. This film’s protagonist is asked at a shipyard to follow a woman who is obsessed with Carlotta Valdez. A conversation in a green-lit hotel room occurs in this film after a woman is saved from a suicide attempt at the Golden Gate Bridge. The dolly (*) zoom was invented for a shot in this film of a man looking down a mission’s bell tower before seeing a woman fall from a window. Jimmy Stewart plays an obsessive man who coaxes a waitress to replay her role in a murder in, for 10 points, what Alfred Hitchcock film named for a detective’s fear of heights?**

ANSWER: ***Vertigo***
<Other Fine Arts — Ganon Evans> [Ed.]

17. When using an XOR [ex-or] cipher to encrypt data, words must be encoded into strings of 8-bit numbers in this numerical base. For 10 points each:

[E] Name this base used by computers that only includes 0’s and 1’s.

ANSWER: **binary** [accept base-**2**]

[M] In an XOR cipher, strings are encrypted using these entities. These things can be either “public” or “private” depending on how accessible they are.

ANSWER: **keys**

[H] Cryptography algorithms commonly utilize these “one-way” functions to scramble input data. One of these functions called MD5 is now considered obsolete due to a new function that produces its “collisions.”

ANSWER: **hash** functions [accept **hashing**]
<Computer Science — Danny Peelen> [Ed. Jason Xu]

18. **The magnitude of this force is decreased by external pressure in a device called the Cartesian devil. The ratio of this force to viscous force during convection is known as the Grashof number. This force can be controlled by changing an object’s density, such as by adding or removing water from a (*) ballast [BAL-lust] tank.** This force, which results from the increase in pressure experienced by objects at greater depths, has a magnitude equal to the weight of the displaced fluid according to Archimedes’ principle. For 10 points, name this upward-pointing force that opposes gravity in a fluid, allowing objects to float.

ANSWER: **buoyancy** [or **buoyant** force]

<Physics — June Yin> [Ed.]

18. These conflicts have been referred to as the “African World Wars” with at least nine countries participating in its second of them. For 10 points each:

[H] Name this set of conflicts. Mobutu Sese Seko was ousted in the first of these conflicts, while his rival Laurent Kabila was killed during the second.

ANSWER: **Congo Wars** [or **Congo Crises**; or **Congolese Civil Wars**; accept **First** and **Second Congo Wars**]

[M] The Congo Wars were catalyzed in part by this ethnic group, which fled to the DRC from a neighboring country to escape Hutu persecution.

ANSWER: **Tutsis** [or **Abatutsis**]

[E] This country’s namesake genocide against its Tutsi population was ended by its president Paul Kagame, who led this country to invade the DRC during the Congo Wars.

ANSWER: **Rwanda** [or Republic of **Rwanda** or Republika y’u **Rwanda**]

<World History—Connor Lee> [Ed. Louis Li]

19. **A Jacques Derrida book titled in reference to this work’s first sentence coined the term “hauntology” to refer to the recurrence of historical themes in the present. This work’s author pleads guilty to “wanting to stop the exploitation of children by their parents” in a section that calls for an end to both family and religion. This work summarizes its thesis as “abolition of (*) private property.”** According to this text, a revolution led by the proletariat should overthrow capitalism and replace it with the title ideology. For 10 points, class struggle is described in what radical left-wing pamphlet by Friedrich Engels and Karl Marx?

ANSWER: *The **Communist Manifesto*** [or ***Manifesto*** of the ***Communist Party***; or ***Manifest*** der ***Kommunistischen Partei***] (The Derrida book is titled *Specters of Marx*.)

<Philosophy — Joel Miles> [Ed.]

19. In a poem, one of these animals “whirled in the autumn winds,” which is only “a small part of the pantomime.” For 10 points each:

[M] The narrator observes that “among twenty snowy things, the only moving thing was the eye of” what type of animal, beginning a poem titled for “Thirteen Ways of Looking at” one of these animals?

ANSWER: **blackbirds** [accept “Thirteen Ways of Looking at a **Blackbird**”; prompt on **birds**]

[E] The author of “Thirteen Ways of Looking at a Blackbird,” Wallace Stevens, also wrote a poem about this season titled “The Snow Man” which begins “one must have a mind of [this season] to regard the frost and the boughs.”

ANSWER: **winter**

[H] This other Stevens poem describes houses that are “haunted by white night-gowns” at the title hour. This poem ends by describing “an old sailor, drunk and asleep in his boots” who “catches tigers in red weather.”

ANSWER: “**Disillusionment of Ten O’Clock**”

<Poetry — Joy An> [Ed. Joel Miles]

20. **This character is told by his wife to buy overshoes while he waits for her to finish getting her hair done. This character, the author of a well-received book on streptothricosis, repeatedly hears the onomatopoeic [ah-nuh-mah-duh-PEE-ick] phrase “pocketa-pocketa-pocketa” while he pilots a hydroplane and fixes a surgical device with a fountain pen. While (*) smoking outside a drugstore, this character envisions a series of adventures that culminate in his imaginary assassination by a firing squad. For 10 points, name this character, the subject of a *New Yorker* story about his “Secret Life.”**

ANSWER: **Walter Mitty** [accept either underlined portion; accept “The Secret Life of **Walter Mitty**”]
<Mixed Literature — Max Hodes> [Ed. Joel Miles]

20. Alexander Wendt analyzed norms through critical theory in the Constructivist approach to this field. For 10 points each:

[M] Name this field in which the theories of Realism and Liberalism differ over the influence of non-state organizations. Democratic peace theory is controversial in this field.

ANSWER: **international relations** [accept **international studies** or **international affairs**; accept **IR** or **IS** or **IA**]

[E] A strong military can lead to the “hard” form of this concept, which is the ability of a country to influence others. The USA is currently the only country described as a “super [this term].”

ANSWER: **power** [accept hard **power**; accept super**power**]

[H] Common reading in IR courses is this theorist’s *Theory of International Politics*, which began the school of neorealism. His balance of power theory argues that states will form shaky alliances to secure dominance.

ANSWER: Kenneth **Waltz**

<Social Science — Ganon Evans> [Ed.]