Saturnalia: Packet 11

Edited by Justine French, Avinash Iyer, Laurence Li, Robert Condron, Connor Mayers, Eric Yin, Karan Gurazada, Nick Dai, Ethan Ashbrook, Dylan Bowman, Jeffrey Ma, Daniel Ma, Benjamin McAvoy-Bickford, and Lalit Maharjan. Written by the editors and Vikshar Athreya, Maxwell Ye, Felix Wang, Danny Kim, William Orr, Jason Lewis, Tiffany Zhou, Gabe Forrest, Ariel Faeder, Josh Rollin, Louis Li, Advaith Modali, Raymond Wang, Auden Young, Aadi Karthik, Ned Tagtmeier, Rohan Venkateswaran, Victor Li, and Richard Lin

THESE TOSSUPS ARE PAIRED WITH BONUSES. IF A TOSSUP IS NOT CONVERTED, SKIP THE PAIRED BONUS AND MOVE ON TO THE NEXT TOSSUP. DO **NOT** COME BACK TO THE SKIPPED BONUS.

1. **A character in this short story desperately tries to offer a girl a coin after accidentally offending her by asking about her fiancé. That character in this story contemplates whether to quote Robert Browning before giving a speech in which he addresses his hosts as the "three Graces." A character in this story bursts into tears after hearing Mr. D'Arcy sing (*)** "The Lass of Aughrim." In this story, Gretta explains that waiting in the rain while sick led to the death of her childhood love Michael Furey. This story ends with Gabriel Conroy watching snow fall through a window. For 10 points, name this last story from James Joyce's *Dubliners*.
ANSWER: "The **Dead**"
<Short Fiction — Bowman> [Ed. Mayers, Condron]

1. This man sent the failed Blue House Raid to assassinate a rival country's president. For 10 points each:
[M] Name this leader, who created a state policy of self-reliance called Juche. This leader's birthday is celebrated as "Day of the Sun" in his home country.
ANSWER: **Kim Il-sung** [or **Kim Song-Ju**; prompt on Kim]
[E] Kim Il-sung is the Eternal President of this country despite having died in 1994. This country is currently led by his grandson, Kim Jong-Un.
ANSWER: **North Korea** [or **Democratic People's Republic of Korea** or **DPRK**; prompt on Korea]
[H] The crew of this U.S. Navy Intelligence ship was captured by the Kim Il-sung government in 1968 one day after the Blue House Raid. The crew of this ship held up the middle finger while being photographed.
ANSWER: USS ***Pueblo*** [accept ***Pueblo*** Incident or ***Pueblo*** Crisis]
<World History — Louis Li> [Ed. Iyer]

2. **In this colony, the Decree of 15 May was enforced by civil commissioner Sonthonax. The society of this colony distinguished between "great" and "little" whites. A ceremony including the drinking of pig's blood that was led by Dutty Boukman was a precursor to revolution in this colony. C.L.R. James chronicled a revolt in this colony in his book (*)** *The Black Jacobins.* A former coachman turned revolutionary in this colony was aided by yellow fever in his conflict against Charles Leclerc; that leader was later betrayed by his commander Jean-Jacques Dessalines. For 10 points, name this French Caribbean colony that gained independence after a slave revolt led by Toussaint Louverture.
ANSWER: **Haiti** [or **Saint-Domingue**; accept **Haitian** Revolution]
<World History — Laurence Li> [Edited]

2. A movement named after this concept was spread by twelve Vaishnavist ("VYE-sh'nah-vist") poet-saints called the Alvars. For 10 points each:

[H] Name this concept, defined as worship towards a specific deity. A type of yoga named after this concept emphasizes loving devotion towards a personal god.

ANSWER: **Bhakti** [or **Bhakti** Yoga]

[E] The Bhakti movement's fast spread is often credited to the arrival of this religion in India, where many followers practiced "surrendering to Allah."

ANSWER: **Islam**

[M] The Bhakti movement is believed to mainly spread to this Islamic tradition, leading to the emphasis of experiencing the ultimate love of God through *dhikr* ("DEE-kur"), or remembrance. Mendicants of this tradition are known as dervishes.

ANSWER: **Sufi**sm [or **Tasawwuf**]

<Religion — Dai> [Edited]

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3. **The khulan, a subspecies of wild ass, is primarily confined to this physical region. This region's namesake "Lake Valley" is an endorheic basin with high-elevation lakes. This region's freshwater Bosten Lake is often taken as one end of its western boundary along with Lop Nur. The Three-North Shelter Forest Program planted trees to combat the growth of this region and is commonly called the Great Green Wall.** *Oviraptor* **(*)** eggs found in this region in 1923 were the first recognized dinosaur eggs. The Taklamakan Desert is sometimes considered part of this desert, which is in the rain shadow of the Tibetan Plateau. For 10 points, name this desert found in northern China and Mongolia.

ANSWER: **Gobi** desert

<Geography — McAvoy-Bickford> [Ed. Daniel Ma]

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3. These compounds can be synthesized from alkenes via oxymercuration-demercuration. For 10 points each:

[E] Name these organic compounds that contain an -OH ("O-H") group. One of these compounds, ethanol, is a primary component of vodka.

ANSWER: **alcohol**s [accept ethyl **alcohol**]

[M] Alkenes can also be converted to alcohols through an oxidation reaction named for hydrogen and this element. This element fills its valence shell with only six electrons and thus violates the octet rule.

ANSWER: **boron** [or **B**; accept **hydroboration**-oxidation]

[H] That reaction, hydroboration-oxidation, has this property, unlike oxymercuration-demercuration. Addition reactions with this property add their intended substituent to a *less* substituted carbon.

ANSWER: **anti-Markovnikov** [do NOT accept or prompt on "Markovnikov"]

<Chemistry — Athreya> [Ed. Gurazada, French]

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4. **The Decorated and Perpendicular styles of architecture were used during this country's Gothic period. A Gothic Revival design by Barry and Pugin for the "New Palace" that houses this country's government contains a hammerbeam roof. Palladio's techniques were introduced to this country through a Banqueting House designed by Inigo Jones. A polymath from this country redesigned a (*)** cathedral on Ludgate Hill to have a large dome that contains a whispering gallery. The Poets' Corner is found in an abbey in this country designated as a Royal Peculiar. For 10 points, name this country in which St. Paul's Cathedral was rebuilt by Christopher Wren after a 1666 fire in its capital.

ANSWER: **England** [or Great **Britain** or the **United Kingdom** or **UK**]

<Architecture — Bowman> [Edited]

4. In the opening lines of a novel, this character describes first seeing a friend "drunk in a Rolls-Royce Silver Wraith outside the terrace of The Dancers." For 10 points:
[H] Name this character who helps Terry Lennox escape to Mexico before discovering that Lennox killed his own wife.
ANSWER: Philip **Marlowe** [or **Philip** Marlowe]
[M] Philip Marlowe is a recurring character in detective novels by this author, such as *The Long Goodbye* and *The Big Sleep*.
ANSWER: Raymond **Chandler**
[E] *The Long Goodbye* and *The Big Sleep* are set in the southern portion of this state. In Nathanael West's *The Day of the Locust*, Tod Hackett plans to paint "The Burning of" a city in this state, where he moves to work as a set designer for a movie studio.
ANSWER: **California**
<Long Fiction — Karthik> [Ed. Condron]

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5. **Numbers which do not satisfy this statement are used to construct a Frey** ("fry") **curve. By factoring an expression over cyclotomic fields, Ernst Kummer** ("KOOM-er") **proved this statement for all regular primes. Ken Ribet** ("RIB-it") **showed that a counterexample to this statement implies the existence of a non-modular elliptic curve, so this statement would follow from the (*)** Taniyama-Shimura-Weil ("vay") conjecture. Richard Taylor and Andrew Wiles proved this theorem in 1995, centuries after its namesake claimed to have a "marvellous" proof of it that could not fit in the margin of a textbook. For 10 points, give this theorem in number theory named for an early French mathematician.
ANSWER: **Fermat's Last** Theorem [prompt on FLT or Fermat's theorem or Fermat; do NOT accept or prompt on "Fermat's little theorem"]
<Math — Ye> [Ed. French]

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5. Pear-shaped hand-axes make up the Acheulean ("uh-SHOO-lee-in") stone industry used by this species. For 10 points each:
[M] Name this early hominid species that is thought to be the first hominid to spread out of Africa.
ANSWER: ***Homo erectus*** [accept ***Pithecanthropus erectus***]
[E] *Homo erectus* is also believed to be the first species to tame this phenomenon, based on evidence in Wonderwerk Cave ("VOON-der-verk cave"). *Homo erectus* and later species used this phenomenon for heating and cooking food.
ANSWER: **fire** [or **flames**]
[H] The remains of the first *Homo erectus* were found on this island by Eugène DuBois ("duh-BWAH"). The fossils of Solo Man, a subspecies of *Homo erectus*, were found on this island by Gustav von Koenigswald ("KER-nigs-vald").
ANSWER: **Java** [or **Jawa**]
<Other Social Science — McAvoy-Bickford> [Ed. Ashbrook]

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6. **The skin of a character in this novel is compared to "the newness of a freshly peeled lily bulb or onion." At the end of this novel, the "Milky Way" seems "to flow down with a roar" into the main character. This novel's main character is described as "being in love with someone he had never seen" in reference to his decision to never attend a live ballet performance. In this novel, the consumptive (*)** Yukio is cared for by Yoko, whose body is recovered from a cocoon warehouse fire at the end of this novel. For 10 points, Shimamura has affairs with the geisha Komako at hot springs in the title location of what novel by Yasunari Kawabata?
ANSWER: ***Snow Country*** [or ***Yukiguni***]
<Long Fiction — Venkateswaran> [Ed. Condron]

6. The protagonist of this film is drugged by her neighbor Minnie and believes she is hallucinating the Devil raping her before crying out: "This is no dream! This is really happening!" For 10 points each:
[H] Name this film in which a woman played by Mia Farrow discovers she has been impregnated by the Devil as she uncovers the cult that resides in her apartment building.
ANSWER: _**Rosemary's Baby**_
[M] _Rosemary's Baby_ was directed by this French-Polish director, who has been wanted by the U.S. government since 1977 for raping a minor. This director was married to Sharon Tate before she was murdered by the Manson family.
ANSWER: Roman **Polanski**
[E] Roman Polanski was played by Rafał Zawierucha ("RA-faw za-VEE-ay-roo-chah") in this director's film _Once Upon a Time in Hollywood_. Leonardo DiCaprio, the star of the film, appears as Calvin Candie in this director's _Django Unchained_.
ANSWER: Quentin **Tarantino**
<Film — Bowman> [Edited]

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7. **During one part of this event, a general pointed to his knee as part of a threat if one party "fired a single shot…" This event was precipitated by "Red Sunday," after which the Tehcir** ("TEH-sir") **Law was adopted. Ambassador Henry Morgenthau Sr. attempted to warn the United States about this event, during which many victims were drowned at Trabzon. (*)** Raphael Lemkin was inspired to coin one term after this event, during which many participants were forcibly marched to Deir ez-Zor ("DEER eh-ZOOR"). Article 301 outlaws discussion of this event in the country where it occurred. For 10 points, name this 1915 event in which a Christian minority in the Ottoman Empire was massacred.
ANSWER: **Armenian genocide** [or **Armenian Holocaust**; accept **Great Crime** or **Medz Yeghern**; do NOT accept or prompt on "Holocaust" alone; prompt on Siege of Van by asking "which was a part of what larger event?"] (Lemkin coined the term "genocide.")
<World History — Iyer> [Edited]

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7. An author tried to get the _Evening Independent_ newspaper to host a lipogram contest so that he could submit a novel that does not include this letter of the alphabet, but the newspaper denied his request. For 10 points each:
[E] Name this vowel which is absent from Georges Perec's _A Void_. This most common vowel in the English alphabet is also not found in Ernest Vincent Wright's novel _Gadsby_.
ANSWER: **e**
[H] Perec was a part of this literary group, which was founded by Raymond Queneau ("keh-noh). Constrained writing styles employed by this group include lipograms and S+7 ("S plus seven"), in which every noun is replaced with whatever noun appears seven places later in the dictionary.
ANSWER: **Oulipo** ("OO-lee-poh") [or _**Ouvroir de littérature potentielle**_; accept **Workshop of potential literature**]
[M] This author wrote the Oulipo-influenced story "The Burning of the Abominable House." Marco Polo describes cities such as Diomira and Isidora to Kublai Khan in this author's _Invisible Cities_.
ANSWER: Italo **Calvino**
<Other Literature — Iyer> [Ed. Mayers]

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8. **A bitonal duet begins a suite this composer wrote for viola, choir, and chamber orchestra. This composer of _Flos Campi_ arranged the folk tune "Kingsfold" for a 1906 hymnal and reused it in his piece _Five Variants of Dives and Lazarus._ The hymn "Why fum'th in fight" forms the basis of a piece this composer wrote for string quartet, chamber orchestra, and string orchestra that was inspired by the composer of (*)** _Spem in Alium_. A George Meredith poem inspired a work by this composer in which the solo violin imitates the song and flight of the title bird. For 10 points, name this English composer of _Fantasia on a Theme by Thomas Tallis_ and _The Lark Ascending_.
ANSWER: Ralph **Vaughan Williams** [do NOT accept or prompt on "Vaughan" or "Williams"]
<Classical Music — Jeffrey Ma> [Edited]

8. After Maurice Ravel's *Bolero* was discovered to still be in copyright, this video game composer created a now-iconic theme in a single day. For 10 points each:
[H] Name this composer of the theme to the *Legend of Zelda* series.
ANSWER: Koji **Kondo**
[E] Kondo also composed the instantly recognizable overworld theme to a Nintendo platformer series that centers on this Italian plumber.
ANSWER: **Mario** [accept *Super **Mario** Bros*]
[M] While he still consults on and occasionally composes music for the *Zelda* series, this was the last *Zelda* game Kondo worked on alone. This entry in the series, which features the nagging fairy Navi and an infamous water temple, was the first 3D *Zelda* game.
ANSWER: ***Ocarina of Time***
<Popular Culture — Ashbrook> [Ed. Maharjan]

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9. **This quantity varies continuously through space in a GRIN** ("grin") **system. Three values of this quantity corresponding to three Fraunhofer** ("FROWN-hoh-fur") **lines are used to compute the Abbe** ("AH-buh") **number. This quantity equals the square root of a material's relative permittivity times its relative permeability. John Pendry designed an "invisibility cloak" using (*)** metamaterials with negative values for this quantity. This quantity depends on polarization in birefringent materials. Values for this quantity multiply sines on either side of Snell's law. For 10 points, name this dimensionless number that describes the speed of light in a medium.
ANSWER: **index of refraction** [or **refractive index**; prompt on index or n]
<Physics — French> [Edited]

9. For 10 points each, answer the following about Indian communities in Africa:
[E] Many Gujarati Indians settled along the Betsiboka River in this island country, which is also home to about one-hundred species of lemurs.
ANSWER: Republic of **Madagascar**
[M] Many Indians passed through this East African trade center within the Zanj containing the islands of Unguja and Pemba. Swahili merchants based in this archipelago dominated the Indian Ocean Arab slave-trade.
ANSWER: **Zanzibar**
[H] This South African city is home to the most Indians outside of India. This city, which is not a capital, is South Africa's largest shipping port and is home to King Shaka International Airport.
ANSWER: **Durban**
<Geography — Rollin> [Edited]

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10. **In Eastern Europe, this ingredient is used to convert black bread into kvass** ("k'vahss")**. Charles Louis Fleischmann invented a commonly-used method for storing this ingredient in dehydrated granules. A yellow-colored dried product made from this ingredient is a popular cheese substitute among vegans. The cells of this ingredient can be lysed** ("lye'st")**) to create a namesake savory (*)** "extract," the primary ingredient in Marmite and Vegemite. This ingredient is often sold in "active dry" and "instant" forms. This ingredient converts sugars into alcohol during the production of beer. For 10 points, name these single-celled fungi often used to make bread rise.
ANSWER: **yeast**s [accept active dry **yeast** or nutritional **yeast** or **yeast** extract or instant **yeast** or baker's **yeast** or brewer's **yeast**; accept ***Saccharomyces** cerevisiae* or ***S. cerevisiae*** or ***Saccharomyces** pastorianus* or ***S. pastorianus***]
<Other — Yin> [Edited]

10. To explain the photoelectric effect, Albert Einstein proposed that the energy of light had this property. For 10 points each:

[M] Name this property. Earlier, Max Planck ("plonk") proposed that light had this property to resolve the ultraviolet catastrophe, which predicted that a black-body emits an infinite amount of radiation.

ANSWER: **quantization** [accept word forms like **quantized**]

[H] The ultraviolet catastrophe results from the classical prediction that a blackbody's spectral radiance is proportional to this function of frequency. The Stefan–Boltzmann law states that the total energy radiated by a blackbody is proportional to this function of its temperature.

ANSWER: **fourth power** [or x **to the fourth** power; accept other variables in place of x such as frequency or temperature or T]

[E] Planck's law for blackbody radiation can be derived by describing light as a gas of these particles. Similarly, Einstein's explanation of the photoelectric effect relies on these massless quanta of light.

ANSWER: **photon**s [accept **photon** gas; prompt on gamma]

<Physics — Yin> [Ed. Gurazada, French]

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11. **George Percy recorded soldiers he commanded from this colony urging him to shoot at children in water. Thomas Dale wrote the Lawes Divine, Morall, and Martial to govern this colony. A supply shipment to this colony was delayed after the wreck of the *Sea Venture* in Bermuda. One leader of this colony was captured by (*)** Opechancanough ("op-eh-CHAN-cah-noh") while on a hunting trip. John Rolfe introduced Spanish tobacco as a cash crop to this colony to prevent future famines after this colony's Starving Time. For 10 points, name this colony founded in 1607 by John Smith, the first long-term English settlement in the Americas.

ANSWER: **Jamestown**

<U.S. History — McAvoy-Bickford> [Edited]

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11. This program was inspired by a speech given at the University of Michigan. For 10 points each:

[M] Name this series of social programs in the 1960s that were part of a "War on Poverty." The Office of Economic Opportunity was created to help enforce this series of programs, which included Head Start and Medicare.

ANSWER: **Great Society**

[E] The Great Society was instituted by this president, who succeeded John F. Kennedy after Kennedy's assassination in 1963.

ANSWER: Lyndon Baines **Johnson** [or **LBJ**]

[H] This brother-in-law of John F. Kennedy founded the Office of Economic Opportunity and served as the first director of the Peace Corps. This man served as George McGovern's running mate in the 1972 election after replacing Thomas Eagleton.

ANSWER: Robert Sargent **Shriver** Jr.

<U.S. History — Athreya> [Edited]

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12. **In a foreword to this novel, Eudora Welty claimed that the triumph of a character who "resolved everything into simplicity" is signalled by a dinner's lighted candles, fruit, and *Boeuf en Daube* ("buhf on dobe"). A character in this novel resolves to "move the tree to the middle" to keep herself from losing her temper at a man who tells her "women can't write, women can't paint." In this novel, Andrew's death in (*)** World War I and Prue's death in childbirth are described in the section "Time Passes." In this novel's final section, Lily Briscoe finishes a painting while Cam, James, and their father make the title journey. For 10 points, name this Virginia Woolf novel about the Ramsay family.

ANSWER: *__To the Lighthouse__*

<Long Fiction — Faeder> [Ed. Condron]

12. Four cyclic themes named "statue," "flower," "love," and "chords" form the basis of a "symphonie" by this composer featuring the electric instrument, *ondes Martenot* ("OND mart-NOH"). For 10 points each:
[H] Name this composer. Toru Takemitsu's *Quatrain* was written in homage to a quartet by this composer scored for violin, cello, clarinet, and piano.
ANSWER: Olivier **Messiaen** ("mess-YAWN")
[M] In the harmonic system he constructed, Messiaen used this term to label the seven scales "of limited transposition." In modern music theory, this term denotes different ordering of major scales starting on different degrees, like the Lydian and Mixolydian.
ANSWER: **modes** [or **modes** of limited transposition]
[E] Messiaen played this instrument for the Église de Saint-Trinité ("AY-gleez duh sahn tree-nee-TAY") in Paris for nearly 60 years. This keyboard instrument produces sound by directing air through large pipes.
ANSWER: pipe **organ**
<Classical Music — Jeffrey Ma> [Edited]

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13. **One type of these reactions uses two RAFT** ("raft") **agents with different activities. Novolacs can be produced from one of these reactions between formaldehyde and phenol. The controlled radical type of these reactions allows for controlling a value equal to the weight average molecular weight divided by the number average molecular weight; that value is dispersity. In a third type of these reactions, a (*)** free radical or ionic reactive center is propagated via successive additions of smaller molecules. Types of these reactions include step-growth and chain-growth. For 10 points, name these reactions that produce substances composed of repeating monomers.
ANSWER: **polymerization** [accept controlled radical **polymerization**; accept reversible addition fragmentation chain-transfer **polymerization** or RAFT **polymerization**; accept step-growth **polymerization** or chain-growth **polymerization**; prompt on CRP]
<Chemistry — Condron> [Edited]

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13. For 10 points each, answer the following about the Seleucid Empire.
[E] The Seleucid Empire was ruled by descendants of Seleucus I ("the first") Nicator, who was a general of this Macedonian king. This successor of Philip II ("the second") conquered the Achaemenid Persian empire and was undefeated in battle.
ANSWER: **Alexander** the Great [or **Alexander** III ("the third")]
[M] Seleucus I Nicator's force at the Battle of Ipsus included several war elephants which he had gained after campaigning against this ruler, who founded the Mauryan empire.
ANSWER: **Chandragupta** I [or **Chandragupta** Maurya or **Sandrokottos** or **Androcottus**]
[H] Another Seleucid ruler, Antiochus III ("the third"), defeated this breakaway kingdom's ruler Euthydemus I ("the first") at the Battle of the Arius. This kingdom was invaded numerous times by the Yuezhi ("y'WEH-jur"), who eventually formed the Kushan Empire.
ANSWER: **Greco-Bactrian** kingdom [or **Greco-Bactria**; accept **Baktria** or **Bactria**]
<World History — Athreya> [Ed. Laurence Li]

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14. **A leader of these people asked for Quintus Fabius Ambustus to be handed over after the death of two emissaries at Clusium. The *Bibliotheca Historica* describes these people fighting the Romans on the right bank of the Tiber at the battle of the River Allia. Under Brennus, these people sacked Rome in (*)** 390 B.C. These people were defeated at a battle where the construction of a series of contravallation walls around the fortress of Alesia led to the defeat of their leader, Vercingetorix ("ver-sin-JEH-toh-ricks"). Julius Caesar wrote a series of commentaries on a war against these people. For 10 points, name these Celtic peoples who lived in modern-day France during the Roman Republic.
ANSWER: **Gaul**s [or **Gallic peoples**; accept **Senones** or **Arverni**; prompt on Celts]
<European History — McAvoy-Bickford, Iyer> [Ed. Iyer]

14. This painting was partnered with a poem that states, "throw overboard / The dead and dying." For 10 points each:

[H] Name this painting that depicts the *Zong* leaving behind bodies in a murky sea.

ANSWER: The **_Slave Ship_**

[E] This British painter of *The Slave Ship* painted a tugboat pulling a warship to be dismantled in *The Fighting Temeraire*. He also depicted the Great Western Railway in his *Rain, Steam, and Speed*.

ANSWER: J. M. W. **Turner**

[M] The discovery of Turner's seascapes is thought to have inspired both the fog and the setting of this painting, which depicts the port of Le Havre. This painting was originally entitled *Marina*.

ANSWER: ***Impression, Sunrise*** [or ***Impression, soleil levant***] (by Claude Monet)

<Painting and Sculpture — Zhou> [Ed. Bowman]

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15. **This character plays a *cithara*** ("KITH-uh-ruh") **to woo his love interest in a dithyramb** ("DITH-uh-ram") **by Philoxenus** ("fih-LOX-ih-nus"). **Aeneas** ("eh-NEE-us") **rescues Achaemenides** ("ah-kee-MEN-id-eez") **from this character's island in the third book of the *Aeneid*** ("eh-NEE-id"). **In Ovid's *Metamorphoses*, a shepherd boy transforms into a river after this character crushes him with a boulder. Since this character refuses to show *xenia*** ("ZEE-nee-uh") **to his guests, they trick him into getting (*)** drunk on sweet wine. This character kills Acis ("AY-sihs") out of jealousy for the love of Galatea ("gal-uh-TEE-uh"). Several sailors escape this character's cave by riding on the underside of sheep after a hero he calls "Nobody" blinds him with a wooden stake. For 10 points, name this inhospitable cyclops from *The Odyssey*.

ANSWER: **Polyphemus** [prompt on Cyclops]

<Mythology — Felix Wang> [Ed. French]

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15. In his letters, this poet called Ted Hughes "not good at all" and an "old crow," among other epithets. For 10 points each:

[H] Name this British poet who described a place "not worth stopping for" in "Church Going." Another poem by this author describes figures who "fill you with the faults they had / And add some extra, just for you."

ANSWER: Philip **Larkin**

[E] Philip Larkin remarked that "Deprivation is for me what daffodils were for" this English Romantic poet, who wrote about a "host of golden daffodils" in "I Wandered Lonely as a Cloud." He also wrote "Tintern Abbey."

ANSWER: William **Wordsworth**

[M] In an essay from his collection *Required Writing*, Larkin posits that poets such as himself, W. H. Auden, and Dylan Thomas loved the poetry of this author. Poems by this author include "The Darkling Thrush" and "The Convergence of the Twain."

ANSWER: Thomas **Hardy**

<Poetry — Laurence Li> [Ed. Mayers]

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16. **This thinker argued that we shouldn't treat old age as a universal identifier for barring the elderly from living a normal life in the book *The Coming of Age*. In another book, this thinker created archetypes such as the nihilist and serious man that are embodied by people working towards realizing their ethical freedom. This author of (*)** *The Ethics of Ambiguity* reworked Hegelian philosophy to create the dichotomy of the "Subject" and the "Other" to explain how women are eternally relegated to a status of inferiority to men. For 10 points, name this feminist philosopher who stated that "one is not born, but rather, becomes a woman" in *The Second Sex*.

ANSWER: Simone de **Beauvoir**

<Philosophy — Ashbrook> [Edited]

16. The original Broadway staging of this play was the first major role for actor Marlon Brando. For 10 points each:
[M] Name this play whose original staging also featured a Tony Award-winning performance from Jessica Tandy, who played a character who is raped by Stanley.
ANSWER: A _**Streetcar Named Desire**_
[E] _A Streetcar Named Desire_ was written by this playwright of _The Glass Menagerie_.
ANSWER: Tennessee **Williams** [or Thomas Lanier **Williams** III]
[H] The original production of _A Streetcar Named Desire_ was directed by this person, who also directed the 1951 film version. This director named colleagues such as Clifford Odets as communists while testifying before HUAC ("h-YOO-ack").
ANSWER: Elia **Kazan** [or Elias **Kazantzoglou**]
<Drama — Mayers> [Edited]

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17. **A member of this phylum is the source of the reagent LAL** ("L-A-L")**, whose clotting signifies the presence of bacterial endotoxins. Another member of this phylum expresses the maternal-effect _Bicoid_** ("BYE-koyd") **gene to establish its anterior-posterior axis. Many members of this phylum exchange gas using a tracheal system and remove nitrogenous wastes using (*)** Malpighian tubules. Sex-linked inheritance was first discovered in a species in this phylum by Thomas Hunt Morgan. Most members of this phylum have exoskeletons made of chitin ("KYE-tin"). For 10 points, name this animal phylum that includes crustaceans, arachnids and insects.
ANSWER: **Arthropoda** [or **Euarthropoda** or **arthropod**s] (LAL is extracted from _Limulus polyphemus_, the Atlantic horseshoe crab; the _Bicoid_ gene and sex-linked inheritance were discovered in _Drosophila melanogaster_, the fruit fly)
<Biology — Yin> [Edited]

17. Plutarch wrote that this ruler's visit to Egypt inspired him to ban mechanics and artisans from participating in government. For 10 points each:
[H] Name this legendary lawgiver of Lacedaemon ("LAH-sih-DEE-min"). This leader created the _Gerousia_ council to assist him in ruling a city where he implemented the Great Rhetra constitution.
ANSWER: **Lycurgus** [or **Lykurgos**]
[E] Lycurgus was one of the rulers of this militaristic city state. This city state on the Peloponnese implemented the _agoge_ ("ah-GOH-jay") system to train its warriors, and it was once ruled by King Leonidas.
ANSWER: **Sparta**
[M] Lycurgus established that these Spartan slaves who were in charge of cultivating the fields were property of the state. Ephors often declared war on these slaves and sent the Krypteia to the countryside to terrorize them.
ANSWER: **helot**s
<European History — McAvoy-Bickford> [Ed. Iyer]

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18. **A response to this poem urges, "Better by far defend it / With honor's holy breath," and is by H.T. Johnson. An advertisement based on this poem shows a mustached man washing his hands with Pears Soap. This poem urges one group to renounce "The lightly proffered laurel, / The easy, ungrudged praise" and calls another group "half devil and half child." The title group of this poem is told to "bind your sons to exile" and (*)** "Send forth the best ye breed." This poem's author wrote it to convince the United States to "take up" the title concept by annexing the Philippines. For 10 points, name this racist defense of imperialism by Rudyard Kipling.
ANSWER: "The **White Man's Burden**"
<Poetry — Tagtmeier> [Ed. Condron]

18. Living organisms use *S*-adenosylmethionine as a cofactor during the transfer of this functional group between molecules. For 10 points each:
[M] Name this functional group. Along with histone modification, the attachment of this functional group to DNA is responsible for epigenetic gene regulation.
ANSWER: **methyl** group [or **CH₃**; accept DNA **methyl**ation]
[E] DNA methylation can only occur at sites where this nitrogenous base is followed by guanine in the 3-prime direction. This pyrimidine base, which pairs with guanine via three hydrogen bonds, is symbolized C.
ANSWER: **cytosine**
[H] DNA methylation induces this phenomenon by marking one copy of a gene to be silenced. Prader–Willi syndrome results from this phenomenon, in which genes are expressed differently based on their parental origin.
ANSWER: genomic **imprinting** [or genetic **imprinting**; accept partial **imprinting**; do NOT accept or prompt on "filial imprinting" or "sexual imprinting"]
<Biology — Yin> [Edited]

19. **The marble used for a sculpture by this artist was of such low quality that the sculpture's ankles have begun to crumble. An initial believed to be this artist's signature was found on the palm of a figure in one of his sculptures, and that figure is decades younger than normally depicted. A sculpture by this artist was restored in 1973 after geologist Laszlo Toth (*)** attacked it with a hammer. This artist added horns to his sculpture of Moses in the tomb of Pope Julius II ("the second"). A sculpture by this artist sits in St. Peter's Basilica and depicts Mary cradling the dead Jesus. For 10 points, name this sculptor of the *Pieta* and a marble David.
ANSWER: **Michelangelo** [or Michelangelo **Buonarroti**]
<Painting and Sculpture — Bowman> [Edited]

19. During Langmuir circulation, this process occurs in narrow, repeating bands between windrows. For 10 points each:
[H] Name this process which commonly occurs along coastlines where wind-driven Ekman transport pulls surface water away from the coast. This process lowers sea surface temperatures in regions such as the eastern Pacific.
ANSWER: **upwelling**
[M] Upwelling in the eastern Pacific is shut down during these events, resulting in anomalously high sea surface temperatures. These climate events occur when the Southern Oscillation Index is negative.
ANSWER: **El Niño** events [prompt on ENSO; do NOT accept or prompt on "La Niña"]
[E] Upwelling also occurs along this geographic feature, as easterly trade winds transport surface water both northwards and southwards away from this feature. This imaginary line encircles the Earth at 0 degrees latitude.
ANSWER: the **Equator**
<Earth, Atmospheric, and Oceanic Science — Yin> [Edited]

20. **The most common implementation of this computer component uses a sense amplifier that repeatedly charges and depletes a capacitor. This component can be placed alternating slots in order to operate with multiple channels. The synchronous dynamic type of this component can take advantage of double data rate, or (*)** DDR ("D-D-R"). This component typically comes in units called DIMMs ("dim's"). The static type of this component is often used for CPU ("C-P-U") caches. This component is typically sold in multiples of 4 gigabytes, with most PCs having 4 to 32 gigabytes of it. For 10 points, name this type of storage used as short term memory.
ANSWER: **random-access memory** [or **RAM** or **MOS memory** or **metal oxide semiconductor memory**; prompt on memory before "short term memory"]
<Computer Science — Maharjan> [Ed. Gurazada]

20. Julius Caesar's *Commentaries on the Gallic Wars* claims the chief deity of the Gauls was this Roman god. For 10 points each:

[H] Name this god, who Roman authors identified with Celtic gods like Teutates ("toh-TAW-tiss") and Lugh ("loo"). Tacitus suggested that the chief Germanic god, Wodan, was this Roman god.

ANSWER: **Mercury**

[E] Mercury was also identified with this Greek god of messengers and travellers who wielded the caduceus.

ANSWER: **Hermes**

[M] When the gods fled to Egypt to escape Typhon, Mercury transformed into this type of bird, indicating his association with the Egyptian god Thoth. Thoth was often depicted with the head of this type of bird.

ANSWER: **ibis** [or African sacred **ibis** or ***Threskiornis aethiopicus***]

<Mythology — McAvoy-Bickford> [Ed. French]