

1. **A two-foot strip was removed from this painting's left side, resulting in the loss of three figures. Its right side includes a large drum, and a halberd points at the viewer from right to left. A mustached man in the back of this work holds a (\*) yellow-and-blue flag.** It was informally rechristened after the dirt and varnish that led to its most common name was removed. For 10 points, name this group portrait of the Amsterdam civic guards, by Rembrandt.

ANSWER: *The Night Watch* [or *The Company of Captain Frans Banning Cocq and Lieutenant Willem van Ruytenhurch*]

062-09-11-13102

2. **Important proteins in this organelle include UGGT, protein disulfide isomerase, and calnexin. Cells in muscles contain a modified form of this organelle that stores calcium. A retention signal for this organelle is KDEL, and, in this organelle, initial N-glycosylation is performed. This organelle plays a critical role in the (\*) folding of some proteins and thus the signal recognition particle targets growing polypeptides and the attached ribosome to this organelle.** For 10 points, name this organelle that comes in rough and smooth forms.

ANSWER: endoplasmic reticulum [or ER]

001-09-11-13103

3. **One person who held this kind of job was hired from the equity firm Quadrangle Group and said that government involvement in his field was "unprecedented and temporary." Another job of this kind lost its cabinet-level status before Gil Kerlikowske's selection. Steven Rattner held this kind of position for the (\*) automotive industry, as have Herb Allison for bank bailouts and Howard Schmidt for cyber-security.** For 10 points, identify this word most often used for the chief of U.S. drug policy, but increasingly for other unelected executive officials.

ANSWER: "czar" [do not accept "drug czar"]

019-09-11-13104

4. **One character in this novel tries to befriend a family of cottagers including Felix De Lacey and Safie. Another character, Justine, is executed after a necklace placed on her body is used as evidence that she killed a boy. Other characters who die include (\*) Elizabeth Lavenza and Henry Clerval, the title character's best friend.** Those characters are both killed by the creation of the titular doctor. For 10 points, name this novel by Mary Shelley.

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

024-09-11-13105

5. **In one interview, this person noted that cybernetics became a social science in the Soviet Union while it evolved into systems theory in the United States. This person's fieldwork with Gregory Bateson led to a photographic study of *Balinese Character*. Her best-known work was attacked by (\*) Derek Freeman, who claimed that many of the natives she interviewed lied to her about their adolescent experiences.** For 10 points, name this author of *Coming of Age in Samoa*, a leading American anthropologist.

ANSWER: Margaret Mead

003-09-11-13106

6. **This group carried six hundred doses of a laxative known as Dr. Rush's Bilious Pills. John Shields and John Colter were charged with mutiny against this group while it was briefly led by John Ordway. This group constructed Fort Mandan and wintered at Fort (\*) Clatsop.** One member of this group was married to Toussaint Charbonneau and helped obtain horses from a chieftain of the Shoshone. Notable members of this group included the slave York and the interpreter Sacagawea. For 10 points, name this party which explored the extent of the Louisiana Purchase.

ANSWER: Lewis and Clark Expedition [or Corps of Discovery]

015-09-11-13107

7. **One of this author's protagonists dies when following his student Tito on a swim after leaving Castalia. The protagonist of another novel by this author learns the ways of wealth from Kamaswami and the ways of love from (\*) Kamala, who dies when she is bitten by a snake.** In another novel by this author, the saxophonist Pablo shows The Magic Theatre to the protagonist. This author of *The Glass Bead Game* wrote about a character who finds peace with a ferryman in *Siddhartha*. For 10 points, name this German author of *Steppenwolf*.

ANSWER: Hermann Hesse

015-09-11-13108

8. **The Uzkok pirates harassed this polity throughout the 17th century. Earlier, its forces lost Famagusta to Lala Mustafa, and this city allied with Matthias Corvinus to defeat Mehmet the Conqueror. This city was subsumed by Austria in the Treaty of Campo Formio and instituted the (\*) "Marriage of the Sea" ceremony.** It had earlier allied with the Lombards and expanded to the Rialto. Lodovico Manin surrendered to Napoleon as the last doge of, for 10 points, what waterlogged city in modern-day Italy?

ANSWER: The Republic of Venice

060-09-11-13109

9. **The differential cross-section of particles undergoing one type of this process at the lowest order is given by the Klein-Nishina formula. This process happens to particles in the Cosmic Microwave Background Radiation that move through hot gas, resulting in the (\*) Sunyaev-Zeldovich (SOON-yuh-eev ZELL-doe-vich) effect.** The Compton form of this process is inelastic, while the Raman form of it is elastic. The Rayleigh form of it partially explains why the sky is blue. For 10 points, name this physical process in which radiation deviates from a straight path.

ANSWER: scattering

026-09-11-13110

10. **One ritual in this belief system includes the use of a clay govi to help a person's spiritual self return to Ginen (GWEE-nen). That ritual is called the "desounen" and involves a person's gwobonanj (GWOH-boh-nahnj) and not the tibonanj (TEE-boh-nahnj). The priests in this system are called either (\*) houngan or mambo, depending on gender.** Its chief god is Bondye (BOHND-yay). Other deities in this religion are called loa (LOW-uh) and include Samedi and Legba. For 10 points, name this syncretic religion, often associated with Haiti and a certain kind of doll.

ANSWER: voodoo [or vodun]

023-09-11-13111

11. In one of this man's poems, the speaker asks Garcia Lorca what he is "doing down by the watermelons" and observes Walt Whitman "poking among the meats in the refrigerator." This poet of "A Supermarket in California" and "Sunflower Sutra" wrote a work that begins "Strange now to think of you, gone without corsets and eyes" called (\*) *Kaddish*. His most famous poem represents industrialized America with the god Moloch and describes "angel headed hipsters." For 10 points, name this American beat poet most famous for *Howl*.

ANSWER: Irving Allen Ginsburg

032-09-11-13112

12. This leader was targeted by Colonel Bastien Thiry (BASS-tea-EN THEER-ree), of the OAS. He wrote the *Army of the Future* and later saw his ideas about mechanized warfare used by an enemy which broke through the Ardennes (ARE-den) Forest. As president, he unilaterally withdrew his country from (\*) NATO command and came to power a second time after the dissolution of the Fourth Republic, though he is best known for first coming to power after Operation Overlord and the fall of Vichy. For 10 points, name this leader of the Free French in World War II.

ANSWER: Charles André Joseph Marie de Gaulle (day GALL)

059-09-11-13113

13. One character in this book, Frank Drummer, is driven insane by attempting to memorize the *Encyclopedia Britannica*. A dentist in this book declares that "a moral truth is a hollow tooth / Which must be propped with gold." This book includes characters like Anne Rutledge, Voltaire Johnson, and Daisy Fraser, the prostitute of the title (\*) location. It consists of two hundred and forty-four posthumous dramatic monologues spoken by characters in the title town's cemetery. For 10 points, name this poetry collection by Edgar Lee Masters.

ANSWER: Spoon River Anthology

004-09-11-13114

14. Walter Kaufmann offered a "reinterpretation" of this thinker, whose works inspired an Alexander Kojeve book about "reading" him. This man claimed that the title concept progressed westward from Asia to Europe, bypassing Africa, in his *Lectures on the Philosophy of History*. He wrote the first volume of a planned "System of Science," which claims that all power relationships can be boiled down to the (\*) dialectic. For 10 points, name this German idealist who wrote works like the *Philosophy of Right* and *The Phenomenology of Spirit*.

ANSWER: Georg Wilhelm Friedrich Hegel

026-09-11-13115

15. The addition of this compound to alkenes creates a Crigee intermediate that then resolves to two carbonyls. This compound forms a dark blue liquid and possesses a foul odor. In contrast to the other common allotrope of its constituent element, this substance is diamagnetic and contains one double and one single bond. The (\*) photochemical reactions of this compound with CFCs deplete it, diminishing its ability to prevent harmful ultraviolet rays from reaching the lower atmosphere. For 10 points, name this compound with formula O<sub>3</sub>.

ANSWER: ozone

020-09-11-13116

16. **The Rogue River originates in this state's portion of the Siskiyou Mountains. The Wallowa Mountains lie in the eastern part of this state, near Hells Canyon. Multnomah Falls lies near a river in this state that runs through The Dalles and the Bonneville Dam. Mount (\*) Hood is a glacier-covered stratovolcano in this state, and its cities of Eugene and Salem lie in the Willamette Valley. For 10 points, name this state that is home to Portland and is separated from Washington by the Columbia River.**

ANSWER: Oregon

036-09-11-13117

17. **In this country, the author Jose Rizal was exiled and then executed over fears that he had begun an independence league. A revolution in this country was led by the Katipunans, and one of their leaders was assisted by American admiral George (\*) Dewey. This home country of Emilio Aguinaldo was led by dictator Ferdinand Marcos until his election fraud prompted him to flee the country, allowing Corazon Aquino to become president here. For 10 points, name this Pacific island nation which was colonized by Spain before temporarily becoming a U.S. territory.**

ANSWER: The Philippines

027-09-11-13118

18. **One man with this surname tells a parable in which Christ's Second Coming occurs in Seville. Another man with this surname is mentored by a monk named Father (\*) Zossima. A third man with this surname spurns Katerina for orgies with Grushenka. That man with this surname is convicted of murdering his father, a crime actually carried out by Smerdyakov. This is the last name of Fyodor, whose three sons are Dmitri, Ivan, and Alyosha. For 10 points, name this surname shared by the title "brothers" of a Fyodor Dostoevsky novel.**

ANSWER: Karamazov

026-09-11-13119

19. **This element, which Humphry Davy isolated by running current through the molten form of its hydroxide, produces the D-line of the Fraunhofer lines. It was formerly manufactured by the Castner process, and currently a cell with a carbon anode and iron cathode, the Downs cell, is used to manufacture it. (\*) Baking soda is the bicarbonate of this element, which burns yellow in a flame test. For 10 points, name this element whose chloride is consumed as table salt, symbolized Na.**

ANSWER: sodium [or Na]

032-09-11-13120

20. **Jonathan Swift threatened to forbid singers to take part in its premiere, as it was considered profane and subversive. Originally performed in three parts, much of its Charles Jennens-penned libretto comes from the Old Testament. This piece includes the choral section (\*) "For Unto Us a Child is Born" and a section during which it is customary to stand. For 10 points, name this oratorio often performed during Advent, telling the prophecies and story of Jesus Christ, which includes the "Hallelujah" chorus, by George Frederick Handel.**

ANSWER: Messiah

062-09-11-13121

21. **Studying this phylum outside of Paris inspired Jean-Baptiste Lamarck's theory of evolution of acquired traits. The anatomy of this phylum contains a dorsal body wall that can excrete a calcium carbonate protective layer. In addition to a "mantle," all organisms in this phylum contain a structure that facilitates motility, called a (\*) "foot." The "bivalve" organisms of this phylum typically excrete shells. For 10 points, name this largest marine animal phylum that contains classes of gastropods and cephalopods, and whose members include squids and clams.**

ANSWER: mollusca [or molluscs]

026-09-11-13122

1. It represents its author's conception of an ideal state, and includes the famous "Allegory of the Cave."

For 10 points each:

[10] Name this philosophical dialogue, which suggests that philosopher-kings should rule the title polity.

ANSWER: **Republic** [or: **Politeia**]

[10] This Greek thinker produced many dialogues that depict the teaching of Socrates, including the *Republic*.

ANSWER: **Plato** [or: **Aristocles**]

[10] This other Platonic dialogue, during which Socrates drinks hemlock and dies, concerns death and the soul.

ANSWER: **Phaedo**

062-09-11-13201

2. This organelle is described by the fluid mosaic model. For 10 points each:

[10] Name this semi-permeable outer covering of a cell.

ANSWER: cell **membrane** [or **plasma membrane**]

[10] The cell membrane can be modeled as a "bilayer" of these organic compounds, which have a hydrophilic "head" and a hydrophobic "tail."

ANSWER: **phospholipids**

[10] Ions and other large molecules that cannot get through the cell membrane are imported and exported via this form of passive transport, which requires an ion channel or transporter protein.

ANSWER: **facilitated diffusion** [do not prompt on or accept "diffusion"]

003-09-11-13202

3. A single light illuminates the simple room, which includes a clock on the top showing the time at 11:35.

For 10 point each:

[10] Name this work that shows a peasant family eating a simple meal.

ANSWER: *The **Potato Eaters*** [or *De **Aardappeleters***]

[10] *The Potato Eaters* was a work by this Dutch artist, who cut off part of his ear around the same time that he completed his *The Starry Night*.

ANSWER: Vincent **van Gogh**

[10] In June 1890, van Gogh painted two version of a work showing this French physician holding a foxglove plant.

ANSWER: Dr. Paul-Ferdinand **Gachet**

064-09-11-13203

4. The forty-third in this series asks the question, "How do I love thee? / Let me count the ways." For 10 points each:

[10] Name this collection of forty-four poems, disguised on their publication as a translation from the work of Luis Vas de Camoëns.

ANSWER: **Sonnets from the Portuguese**

[10] She wrote the *Sonnets* to chronicle her love of her husband Robert.

ANSWER: **Elizabeth Barret Browning**

[10] This Elizabeth Browning heroine befriends Marian Erle and attempts a writing career before marrying her cousin Romney.

ANSWER: **Aurora Leigh**

062-09-11-13204

5. Answer some questions about dielectrics, for 10 points each.

[10] A layer of dielectric separates two plates of conducting material in this fundamental circuit element.

ANSWER: **capacitor**

[10] When a dielectric material is exposed to an electric field, charge separation results in this quantity, defined as the dipole moment per unit volume, being nonzero.

ANSWER: electric **polarization**

[10] The electric field of a dipole is proportional to this power of the distance from the dipole.

ANSWER: **-3** [or **negative third**]

022-09-11-13205

6. Answer the following about 19th Century wars with Native Americans, for 10 points each.

[10] This Sauk leader fought a war in Illinois before being defeated at the Battle of Bad Axe. A young Abraham Lincoln joined the militia that put down this man's invasion.

ANSWER: **Black Hawk** [or **Makataimeshekiakiak** ]

[10] This Shawnee leader along with his brother Tenskwatawa fought a war in the Northwest territory before dying at the Battle of the Thames.

ANSWER: **Tecumseh** [or **Tecumtha** ]

[10] This leader agreed to abide by the treaty of Payne's Landing and was captured in 1837 after arriving to negotiate a truce between his Seminole warriors and the US government.

ANSWER: **Osceola**

002-09-11-13206

7. In this movie, one character recalls how he and his dad would eat ice cream on a curb and count the number of blue and red cars they spotted. For 10 points each:

[10] Name this movie which cast Edward Asner as the voice of the protagonist, Carl Fredericksen.

ANSWER: **Up**

[10] *Up* was produced by this company known for CGI films like *Finding Nemo*, *Toy Story* and *WALL-E*

ANSWER: **Pixar** Animation Studios

[10] In the film, Carl finally meets this famed South American explorer, who is voiced by Christopher Plummer. It turns out that his sole objective is to capture the rare snipe of Paradise Falls.

ANSWER: **Charles Muntz** [accept either name]

064-09-11-13207

8. The title character of this work is named Philippe, and is switched with his secret twin brother Louis XVI by Aramis. For 10 points each:

[10] Name this third volume of *The Vicomte of Bragelonne*, which includes the deaths of Porthos and Athos after a failed coup.

ANSWER: *The **Man in the Iron mask*** [or ***L'Homme au Masque de Fer***]

[10] *The Man in the Iron Mask* was written by this author who introduced D'Artagnan in *The Three Musketeers*.

ANSWER: Alexandre **Dumas**

[10] In this other Dumas novel, Edmond Dantes escapes from the Chateau D'if after being wrongly accused of being a spy.

ANSWER: *The **Count of Monte Cristo*** [or *Le **Comte de Monte-Cristo***]

015-09-11-13208

9. This year saw figures such as Louis Kossuth rise in power and the creation of a handful of constitutions. For 10 points each:

[10] Name this tumultuous year in Europe in which revolutions of all sorts swept across the continent.

ANSWER: **1848**

[10] This "Citizen King" of France who ruled over the July Monarchy abdicated in favor of his son in 1848, but instead Napoleon III eventually came to power.

ANSWER: **Louis-Philippe**

[10] The earlier July Revolution in 1830 had removed this king from power in favor of Louis-Philippe.

ANSWER: **Charles X** of France [prompt on **Charles**]

023-09-11-13209

10. These curves are linear if the two goods plotted on the x and y axes are perfect substitutes. For 10 points each:

[10] Give these curves that display, given a certain budget amount, combinations of goods for which a buyer has no preference for one combination over another.

ANSWER: **indifference** curves

[10] Indifference curves display the combinations of goods that have equal values for this quantity, which measures the amount of satisfaction a buyer gains from purchasing an item.

ANSWER: **utility**

[10] The paradox of value states that although water has a higher total utility than these precious objects, water also has a lower price than these objects. The labor theory of value "solved" this paradox by claiming that utility and price were not necessarily related to each other.

ANSWER: **diamonds** [or **diamond**-water paradox]

003-09-11-13210

11. The term "paean" ("PEE"-an) originally referred to hymns dedicated to this god, who was also considered to be the ideal kouros. For 10 points each:

[10] Identify this Greek god of light, archery, music, and medicine, a son of Leto and Zeus who had an oracle at Delphi.

ANSWER: **Apollo** [or **Phoebus**]

[10] After Eros shot this nymph with a leaden arrow and Apollo with a gold one, Apollo pursued her until she asked her father Peneus to turn her into a laurel tree.

ANSWER: **Daphne**

[10] Daphne is one example of this type of nymph, known for living in trees. Other examples included the Epimelides, who lived in apple and other fruit trees.

ANSWER: **dryads**

029-09-11-13211

12. This set is constructed from the rationals using Dedekind cuts. For 10 points each:

[10] Name this set of numbers, which includes both algebraic and transcendental numbers, but which is a subspace of the complex numbers.

ANSWER: **real** numbers

[10] The real numbers have this property, unlike the rationals. They therefore cannot be placed in bijection with the integers.

ANSWER: **uncountable**

[10] The real numbers are one of these algebraic structures. These structures are a ring with division and commutative multiplication. The vectors of a vector space have elements that draw from one of these structures.

ANSWER: **field**

022-09-11-13212

13. George Osborne currently holds this position in the Shadow Cabinet, while Andrew Bonar Law and Stanley Baldwin were among the future Prime Ministers who made their names here. For 10 points each:  
[10] Identify this office responsible for the British treasury, held from 1997 to 2007 by Gordon Brown.

ANSWER: **Chancellor of the Exchequer**

[10] This man served as Chancellor of the Exchequer for five years under Stanley Baldwin. In 1940, he became Prime Minister after Neville Chamberlain retired and led the country through World War II.

ANSWER: Winston Leonard Spencer **Churchill**

[10] Churchill lost the position of Chancellor of the Exchequer after this man formed his National Government in 1931.

ANSWER: James Ramsay **MacDonald**

029-09-11-13213

14. The theory that it was dedicated "to sweethearts" is generally considered false based on the composer's previous history of dedications. For 10 points each:

[10] This bagatelle in A minor is often considered to have been written for a pupil the composer wished to marry.

ANSWER: **Fur Elise**

[10] This composer of *Fur Elise* and the *Sonata Pathetique* used the C-minor key for his 5th symphony, which he opened with what is described as the sound of fate knocking at the door.

ANSWER: Ludwig van **Beethoven**

[10] This Beethoven opera sees the titular character revealed to be Leonore, as she rescues her husband Florestan from a Spanish prison.

ANSWER: **Fidelio**

002-09-11-13214

15. This body of water is crossed by the Fahit Sultan Mehmet Bridge. For 10 points each:

[10] Name this strait that is straddled by the teeming metropolis of Istanbul.

ANSWER: the **Bosphorus** [or **Bosporus**]

[10] The Bosphorus is to the north of the Sea of Marmara, which it connects to the North Sea. This strait connects Sea of Marmara to the Aegean to the south.

ANSWER: the **Dardanelles** [or **Dardanellia**; or **Hellespont** or **Canakkale Bogazi**]

[10] The Dardanelles and Bosphorus make it possible to ship goods from Athens to this Ukrainian seaport on the Crimean peninsula. It was once home to the Soviet Black Sea Fleet.

ANSWER: **Sevastapol** [or **Sebastapol**; or **Aqyar**]

026-09-11-13215

16. The buttoned-down musician Mr. Brook resolves not to expose the title character's compulsive lying in this author's short story "Madame Zilensky and the King of Finland." For 10 points each:

[10] Name this writer, who depicted depressed people in small Southern towns in her novels *The Heart is a Lonely Hunter* and *The Ballad of the Sad Café*.

ANSWER: Carson **McCullers** [or Lula Carson **Smith**]

[10] *The Ballad of the Sad Café* was adapted for the stage by this American absurdist, whose own work includes *The Lady From Dubuque*, *The Zoo Story*, and *Who's Afraid of Virginia Woolf?*

ANSWER: Edward Franklin **Albee**

[10] Like Carson McCullers, this author is often described as "Southern Gothic." He depicted the residents of Yoknapatawpha County in "A Rose for Emily" and *The Sound and the Fury*.

ANSWER: William Cuthbert **Faulkner**

019-09-11-13216

17. The Lux-Flood model describes them as oxide ion acceptors. For 10 points each:

[10] Name these species than in the Brønsted-Lowry definition are proton donators.

ANSWER: **acid**

[10] This man names a model of acids and bases in which acids are electron pair donors.

ANSWER: Gilbert Netwon **Lewis**

[10] This term is used to describe acids that are stronger than 100% sulfuric acid.

ANSWER: **superacid**

001-09-11-13217

18. The protagonist of this novel attends the Lowood School under Mr. Brocklehurst and befriends Helen Burns there. For 10 points each:

[10] Name this work in which Grace Poole is in charge of keeping hidden Bertha Mason, the first wife of Edward Rochester.

ANSWER: **Jane Eyre**

[10] This author wrote *Jane Eyre* under the pseudonym Currer Bell, and she also wrote *Villette* and *The Professor*.

ANSWER: **Charlotte Brontë** [prompt on **Brontë**]

[10] Mr. Rochester owns this house, in which Jane Eyre is employed as a governess and which is burned down by Bertha Mason before her death.

ANSWER: **Thornfield** Manor

023-09-11-13218

19. Answer some questions about South American wars, for 10 points each:

[10] This conflict, named for the world's largest ocean, saw Chile attack an alliance of Bolivia and Peru over negotiations regarding the Atacama.

ANSWER: War of the **Pacific**

[10] This war's namesake group of nations included Argentina, Brazil, and Uruguay. One of its chief motivations was control over the Rio de la Plata region.

ANSWER: War of the **Triple Alliance** [or **Paraguayan** War]

[10] After Isabel Perón was ousted, the juntas led by Jorge Rafael Videla's regime in Argentina killed tens of thousands of leftists in this so-called war.

ANSWER: **Dirty** War

022-09-11-13219

20. Name these poems by Edgar Allan Poe, for 10 points each.

[10] This poem which takes place "upon a midnight dreary," is noted for its repeated use of the word "nevermore."

ANSWER: "The **Raven**"

[10] This poem bemoans the death of the narrator's lover, the titular woman who lived in a "kingdom by the sea."

ANSWER: "**Annabel Lee**"

[10] This poem also bemoans the death of a beautiful woman. The narrator recalls how the title character died "in the ghoulish-woodland of Weir."

ANSWER: "**Ulalume**"

024-09-11-13220

21. These objects can be "varicose" and appear purple if they are swollen or twisted. For 10 points each:  
[10] Name these blood vessels that carry blood back to the heart.

ANSWER: **veins**

[10] This is the only vein in the body that carries oxygenated blood. As the name implies, it carries blood back from the lungs.

ANSWER: **pulmonary** vein

[10] These "internal" and "external" of these veins carry blood from the brain and head and meet the subclavian vein. Venous pressure is often measured here to diagnose congestive heart failure.

ANSWER: **jugular** veins

003-09-11-13221