1. According to legend, this man's skull was made into a drinking cup after he boarded a seemingly-abandoned vessel and was ambushed by the men under Robert Maynard. Governor Alexander Spotswood sent the sloops that killed him off Ocracoke Island. This man extorted a chest of medicine as (*) ransom for the passengers of the Crowley while blockading Charleston. He captured a French slave ship called the Concorde and renamed it the Queen Anne's Revenge. For 10 points, name this pirate born Edward Teach and named for the color of his facial hair.
ANSWER: Blackbeard [or Edward Teach before it is read]
080-12-69-04101
2. In one poem, this poet represented his beloved as a white deer with a warning not to touch her hung in diamonds about her neck. This poet employed Latin instead of his native language in an epic poem glorifying the victories of Scipio Africanus entitled (*) Africa. A volta occurs between the octave and sestet of a poetic form he innovated and used in many poems inspired by a woman named Laura. For 10 points, name this Italian Renaissance poet who developed a namesake type of sonnet. ANSWER: Petrarch [or Francesco Petrarca; or Thomas Wyatt until "epic" is read]
3. This musical work is named after a speech in Othello which bids farewell to "the royal banner and all quality, pride" along with this work's title "of glorious war." One section of this work is often sung to the lyrics "mother of the free, how shall we extol thee, who are born of thee?" That section is $\left(^{*}\right.$ ) "Land of Hope and Glory." This work traditionally begins the BBC's Last Night of the Proms concert. For 10 points, name this series of five marches by Edward Elgar, often played at high school graduations. ANSWER: the "Pomp and Circumstance" marches

019-12-69-04103
4. This man was able to oust his predecessor as leader of the LCS by promoting an "antibureaucratic revolution." He was overthrown shortly after a disgruntled citizen charged a bulldozer at a radio television building. He ordered the murder of Ivan Stambolic, and condoned his general Radko Mladic's murder of thousands of (*) Bosniaks at Srebrenica. This dictator was tried in 2001 for war crimes at the Hague, where he died in 2006. For 10 points, name this former president of Yugoslavia. ANSWER: Slobodan Milosevic

020-12-69-04104
5. This model erroneously predicts a nonzero angular momentum in the ground state. Elliptical orbits were incorporated into this model by Arnold Sommerfeld. This model yielded -13.6 electron volts as the ground state. The key achievement of this model was its successful explanation of the (*) Rydberg formula. This model is a quantum mechanical modification of the Rutherford model, with the orbits of electrons quantized. For 10 points, name this model of the atom named for a Dutch physicist. ANSWER: Rutherford-Bohr model of the hydrogen atom
6. One person who called for an end to this event was Christina Maslach. A key figure involved in this event wrote The Time Paradox and The Lucifer Effect. Another participant in this event was nicknamed "John Wayne" due to his behavior. Originally intended to last two weeks, this event (*) ended after six days. For 10 points, name this experiment in which student participants served as guards over other students, carried out by Phillip Zimbardo.
ANSWER: the Stanford Prison Experiment
194-12-69-04106
7. The Patriarch of Alexandria claims apostolic authority from the namesake of this book. Chapter 13 of this book describes the "Son of Man coming in the clouds with great power and glory" and is known as the "Little Apocalypse." Its namesake is mentioned as "My son" in 1 Peter. A unique aspect of this book is its "secrecy motif" in that Jesus stresses not telling of his messianic power. It is the (*) shortest and earliest of the Gospels. For 10 points, name this book, the second Synoptic Gospel. ANSWER: The Gospel According to Mark [or Saint Mark]
8. This politician's son ran a program of forced sterilizations during the Emergency. This prime minister oversaw the underground nuclear test known as "Smiling Buddha." With Zulfiqar Bhutto, this politician signed the Simla Agreement, which led to the eventual recognition of (*) Bangladesh. After ordering Operation Blue Star, which disrupted a holy site, she was assassinated by her own Sikh bodyguards. For 10 points, name this daughter of Jawaharlal Nehru, a female Prime Minister of India. ANSWER: Indira Priyadarshini Gandhi [prompt on Gandhi]
9. In this organelle, ubiquinol is made from ubiquinone by the action of Complex $I$, an iron-sulfur protein. Coenzyme $\mathbf{Q}$ is in this organelle whose namesake $\left({ }^{*}\right)$ "Eve," a theorized ancestor of all humans, could be found by tracing changes in its maternally-inherited non-nuclear DNA. Cristae are folds in the internal membrane of this organelle, where the citric acid cycle and electron transport chain occur to produce ATP. For 10 points, name this organelle which helps generate energy for the cell.
ANSWER: mitochondria [or mitochondrion]
104-12-69-04109
10. This work describes a sexual encounter between a female typist and a "young man carbuncular" whose "vanity requires no response." That encounter is observed by Tiresias. In this poem, a conversation about Lil and Albert's relationship is repeatedly interrupted by (*) "HURRY UP PLEASE IT'S TIME." This poem ends with a quote from the Upanishads, "Shantih Shantih Shantih," and includes sections like "The Burial of the Dead." For 10 points, name this T. S. Eliot poem that begins, "April is the cruelest month."
ANSWER: "The Waste Land"
11. This composer included the aria "O mio babbino caro" in his opera Gianni Schicchi. The title figure of one of this man's operas kills Baron Scarpia and later commits suicide. Another of his operas includes a character named Calaf, who sings "Nessun dorma," and (*) Cio-Cio San ("chow chow" sahn) commits seppuku in another. Yet another of this man's operas provided the basis for Rent. For 10 points, identify this Italian composer of Turandot, Madame Butterfly, and La Boheme.
ANSWER: Giacomo Puccini
12. In one scene in a novel by this author, a student kisses the breast of a girl named Asya. That student is the addressee of a letter written by that novel's protagonist, who infuriates Rusanov before being discharged from the title institution. In another work by this author, the title character begs an Estonian for a cigarette and is led by (*) Tyurin. The title character of that work by this author is a "zek" who is given an extra soup ration by the rest of Gang 104. For 10 points, name this Soviet author of Cancer Ward who wrote about Shukov in One Day in the Life of Ivan Denisovich.
ANSWER: Aleksandr Solzhenitsyn
13. After this battle, the losing side's fleet sailed around Cape Sounion to try and capture the winning side's capital. Edward Creasy named this battle, in which the polemarch Callimachus died, the most decisive in history. In this battle, the victorious side, which contained a contingent of Plataeans, gave the de facto command to $\left(^{*}\right.$ ) Miltiades, who smashed the invading armies of Darius I. For 10 points, name this Persian defeat by the Athenians, after which Pheidippides supposedly ran 26 miles.
ANSWER: Battle of Marathon
153-12-69-04113


#### Abstract

14. A high-pressure form of this device was developed by Richard Trevithick. The first practical form of this device was created by Thomas Savery. Matthew Boulton funded improvements on it by one innovator, which included adding another (*) condenser chamber and the double-acting piston. This device was originally used to pump out flooded coal mines. For 10 points, name this device whose well known inventors include Thomas Newcomen and James Watt.


ANSWER: steam engine
066-12-69-04114
15. The McAlpine Locks and Dam were built on this river, which flows past Angel Mounds. A city situated next to this river celebrates the Tall Stacks festival with many steamboats. Cities on this river include Evansville, and this river is formed from the confluence of the (*) Monongahela and Allegheny rivers. It joins a longer river at Cairo, Illinois, and cities lying on it include Louisville and Pittsburgh. For 10 points, name this river, a tributary of the Mississippi that flows past its namesake state in Cincinnati.
ANSWER: Ohio River
140-12-69-04115
16. In one epic poem, Achaemenides (uh-kye-MEN-id-eez) escapes one of these figures and is rescued by Aeneas. They were at one point slain by Apollo as revenge for the death of Asclepius. These figures created the trident of Poseidon and the thunderbolts of Zeus. One of these beings eats some people who work for a man who uses the alias (*) "nobody." That representative of these beings is a sheepherding son of Poseidon who is blinded by Odysseus. For 10 points, name this mythical race of beings with one eye.
ANSWER: cyclopes [or cyclops]
052-12-69-04116
17. Resonance and orbital hybridization were developed as part of a "bond theory" described by this adjective. The steric number is principally used in a model whose name starts with this adjective; that model predicts molecular geometry based on minimizing $\left({ }^{*}\right)$ electron pair repulsion. Lewis dot diagrams only depict the electrons described by this adjective. For 10 points, identify this adjective applied to electrons that participate in bonding and to the outermost shell of an atom.
ANSWER: valence
18. The narrator of this work describes how "water, like a witch's oils, burnt green, and blue and white" after expressing disgust at "slimy things" that crawled "with legs upon the slimy sea." Its third section describes a skeleton ship on which Death loses a game of dice to Life-in-Death. The title character of this poem "stoppeth one of three" outside a (*) wedding, telling the Wedding Guest how his crew was cursed because he killed an albatross. For 10 points, name this phantasmagorical poem by Samuel Taylor Coleridge.
ANSWER: "The Rime of the Ancient Mariner"
080-12-69-04118
19. Despite advice from Mark Hanna, this man ran in one election using a "Front Porch" political campaign. This man named an 1890 tariff that raised duties on imports by almost fifty percent. The Gold Standard Act was passed by this man, who was opposed in both elections that he won by (*) William Jennings Bryan. This man died after he was shot at the Pan American Exposition in Buffalo by anarchist Leon Czologosz (CHOL-gosh). For 10 points, name this President who led during the Spanish-American War.
ANSWER: William McKinley
20. In one of this man's paintings, Cupid holds up a mirror to the viewer that reflects Venus' face. This artist also painted a picture whose center features a man in black, who holds a scroll and faces a man in gold, who hands him the key to the title city. This artist of the Rokeby Venus and The (*) Surrender of Breda painted the reflection of Philip IV and his wife in a painting that focuses on the Infanta Margarita amidst a dog and dwarves. For 10 points, name this Spanish artist of Las Meninas.
ANSWER: Diego Velazquez
149-12-69-04120
21. At the beginning of this work, the narrator states that a disease had sharpened his senses. The narrator of this work is driven to act because of the vulture-like pale blue eye of an old man, who ultimately ends up under some $\left({ }^{*}\right)$ floorboards. The noise of the title object is compared to a watch "enveloped in cotton," and drives the narrator to turn himself in for murder. For 10 points, identify this short story about the beating of the title organ, by Edgar Allan Poe.
ANSWER: "The Tell-Tale Heart"
189-12-69-04121
22. This woman was involved in a scandal in which Cardinal de Rohan was duped by Jeanne de la Motte called the Affair of the Diamond Necklace. This daughter of Francis I and Maria Theresa was held captive in the Tuileries before escaping to Varennes. During her trial, she cried outrage at being accused of incest. She was painted by David (dah-VEED) before being (*) executed in 1793. When told that the French people had no bread, she apocryphally said, "Let them eat cake." For 10 points, name this wife of Louis XVI.
ANSWER: Marie Antoinette Josephe Jeanne d'Autriche-Lorraine
192-12-69-04122
23. One moon of this planet is known for its 'cantaloupe terrain." Voyager 2 imaged this planet's ring system in 1989, and its outermost ring, Adams, contains five noticeable arcs. Storms on this planet's surface include the Scooter as well as the anti-cyclonic (*) Great Dark Spot, and its largest moon is Triton. For 10 points, identify this Solar System planet which is, since Pluto's demotion, the farthest planet from the Sun.
ANSWER: Neptune

1. In 2010, this governor was embroiled in controversy over whether his education commissioner, Brett Schundler, was responsible for a paperwork mistake that cost his state four hundred million dollars in federal education spending. For 10 points each:
[10] Name this governor of New Jersey, who gave the keynote speech at the 2012 Republican National Convention.
ANSWER: Christopher James "Chris" Christie
[10] Christie defeated this Democrat who was running for re-election in 2009. He then became the CEO of MF Global, a financial services firm which collapsed in 2011.
ANSWER: Jon Stevens Corzine
[10] From 2002 to 2008, Christie held this position for New Jersey. The Bush administration's firing of seven people from this Justice Department job in December 2006 caused a scandal over accused political motivations.
ANSWER: U.S. attorney
019-12-69-04201
2. This composer improved on a form of music invented by John Field in writing his twenty-one Nocturnes. For 10 points each:
[10] Name this Polish composer, whose works were primarily written for the piano.
ANSWER: Frederic Chopin
[10] Chopin wrote twenty four of this type of work, including one in E minor. This type of piece usually sets the mood before other pieces are played.
ANSWER: preludes
[10] Chopin wrote several collections of works depicting this type of Polish dance. This dance is written in 3/4 (three-four) time, with an accent on the second or third beat.
ANSWER: mazurka
3. In Walter Raleigh's sonnet replying to this poem, the speaker says she would join the title figure "if all the world and love were young." For 10 points each:
[10] Name this English pastoral poem, whose title speaker promises "a belt of straw and ivy buds, with coral claps and amber studs" if the listener will "come live with me and be my love."
ANSWER: "The Passionate Shepherd to His Love"
[10] This man wrote "The Passionate Shepherd to His Love." He also wrote two plays about the conqueror Tamburlaine and a play whose protagonist makes a deal with the devil, Doctor Faustus.
ANSWER: Christopher Marlowe
[10] Faustus rhetorically asks "Was this the face that launched a thousand ships, and burnt the topless towers of Ilium?" on seeing an apparition of this beautiful woman from Greek mythology.
ANSWER: Helen of Troy
4. This battle was preceeded by Operation Lightfoot, which sought to clear two corridors through a massive minefield. For 10 points each:
[10] Name this 1942 battle in which the British Eighth Army ground down and eventually decisively defeated Rommel's Afrika Korps.
ANSWER: Second Battle of El Alamein
[10] The British Eighth Army was commanded by this sometimes overly-cautious commander who later led the failed Operation Market Garden in September 1944.
ANSWER: Bernard Law Montgomery
[10] Following the eventual surrender of the Afrika Korps in 1943, Rommel returned to Europe, where he was in charge of Nazi forces in the West during this event, the Allied invasion of Normandy in June, 1944. ANSWER: D-Day [or Operation Overlord]

141-12-69-04204
5. It's the end of the world as the Norse gods knew it. Answer the following about Ragnarok for 10 points each:
[10] This trickster god kills Heimdall, but is also slain by him during the confrontation.
ANSWER: Loki
[10] Because he lacks his sword, this god is easily slain by the fire jotun Surtr at Ragnarok. This fertility god uses an antler in battle.
ANSWER: Freyr
[10] Some of the few surviving gods after Ragnarok include the sons of Thor. Name either of these folks, who hang out with the other survivors at a field where Asgard once was.
ANSWER: Modi [or Magni]
6. This type of field causes the splitting of spectral lines in the Zeeman Effect. For 10 points each:
[10] Identify this field which is represented by the letter B. It is responsible for the attraction between materials like nickel and iron.
ANSWER: magnetic field
[10] Whereas the cgs unit for the magnetic field is the gauss, this is the SI unit for the magnetic field. An old way of referring to it is the "weber per meter squared."
ANSWER: teslas [prompt on $\mathbf{T}$ ]
[10] This is the term given to a long coil of wire consisting of many loops of wire. The total B-field in one of these is the sum of the fields due to the current in each loop.
ANSWER: solenoids
189-12-69-04206
7. Edmund Wilson compared warring nations to hungry sea slugs in a book about literature surrounding this conflict, Patriotic Gore. For 10 points each:
[10] Name this conflict in which Henry Fleming deserts the fictional 304th New York Regiment while fighting in it, but returns to become standard-bearer, in The Red Badge of Courage.
ANSWER: American Civil War
[10] The Red Badge of Courage was written by this man. This author of Maggie: A Girl of the Streets died of tuberculosis shortly after a stint as a war correspondent in Cuba.
ANSWER: Stephen Crane
[10] This Robert Lowell poem describes a monument to the 54th Massachusetts Regiment led by Robert Gould Shaw. It begins, "The old South Boston Aquarium stands in a Sahara of snow now."
ANSWER: "For the Union Dead"
8. These people were defeated at the Battle of Clontarf. For 10 points each:
[10] Identify these seafarers from Scandinavia whose famous members include Erik the Red. There is no evidence supporting the idea that these people wore helmets with horns.
ANSWER: Vikings [or Norsemen; or Northmen]
[10] This other famous Viking discovered Vinland, making him the first European to reach North America. He was the son of Erik the Red, and his sons were named Thorgils and Thorkell.
ANSWER: Leif Ericson the Lucky [or Leiv Eriksson den Hepne; or Leifur Eriksson]
[10] In 793 CE, the first Viking raid outside of Scandinavia occurred in Lindisfarne, an island off the coast of this constituent part of the United Kingdom.
ANSWER: England
189-12-69-04208
9. Organisms of this kingdom have hyphae cells separated by septa. For 10 points each:
[10] Name this kingdom exemplified by yeasts and mushrooms.
ANSWER: Fungi [or fungus]
[10] In fungi, hyphae gather into a large mass of cells known by this name.
ANSWER: mycelium [or mycelia]
[10] These structures are formed by a large circle of mushroom sporocarps. They are normally found in wooded areas and are traditionally associated with fantastic creatures.
ANSWER: fairy rings [or elf rings, or pixie rings, or fairy circles]
192-12-69-04209
10. Settlers of this colony arrived on the Godspeed, the Discovery, and the Susan Constant with Christopher Newport. For 10 points each:
[10] Name this English settlement home to John Smith and Pocahontas' husband, John Rolfe.
ANSWER: Jamestown Colony
[10] This name was given to the harsh winter of 1609 to 1610 in Jamestown, which lost 400 of its 500 inhabitants during it.
ANSWER: Starving Time
[10] This father of Pocahontas helped cause the Starving Time when he stopped his tribe from trading food to the colonists in Jamestown.
ANSWER: Powhatan [or Wahunsenacah]
023-12-69-04210
11. This tower was twice sold for scrap metal by Victor Lustig. For 10 points each:
[10] Name this iron lattice tower that was built as the entrance gate for the 1889 World's Fair. The outline of this tower can be approximated by an exponential function.
ANSWER: Eiffel Tower
[10] The Eiffel Tower is located in Paris, a city that is bisected by this river. The Pont des Arts is a bridge that runs over this river.
ANSWER: Seine
[10] A palace named for this location in Paris was destroyed during the Paris Commune. Catherine de Medici created the public gardens here.

## ANSWER: Tuileries

12. One species belonging to this phylum, afarensis, was the first to develop the ability to walk upright. For 10 points each:
[10] Name this genus of hominids, whose other species include africanus and anamensis. It is disputed as to whether it split from genus homo or the other way around.
ANSWER: Australopithecus
[10] This near-complete skeleton of an Australopithecus afarensis was found in Ethiopia by Donald Johanson. It was named after a Beatles song.
ANSWER: Lucy [or AL 288-1]
[10] A predecessor of Australopithecus split from this other primate, which is now the closest living relative of today's humans. Jane Goodall studied these animals for many years.
ANSWER: chimpanzees
140-12-69-04212
13. The uncle of this novel's protagonist encourages him to hire Herr Huld, a lawyer who spends more time name-dropping than helping his case. For 10 points each:
[10] Name this novel, which ends with Josef K. dying "like a dog" after fruitlessly trying to discover what crime he is charged with or what body is judging him.
ANSWER: The Trial [or Der Prozess]
[10] The Trial was written by this man. He also wrote about Gregor Samsa's transformation into a beetle in "The Metamorphosis."
ANSWER: Franz Kafka
[10] In a cathedral, a priest tells Joseph K. a parable about a man who seeks to come before this entity. A gatekeeper discourages the man from entering, but tells him at the end of his life that the gate to this entity was only made for him and will now be closed.
ANSWER: the Law [or das Gesetz]
121-12-69-04213
14. This director followed Jewish gangster "Noodles" Aaronson over a period of 40 years in Once Upon a Time in America. For 10 points each:
[10] Name this Italian director of "spaghetti Westerns" like Once Upon a Time in the West and The Good, the Bad, and the Ugly.
ANSWER: Sergio Leone
[10] The Good, the Bad, and the Ugly stars this actor as the "Man with No Name." In the past 20 years, this man has directed Unforgiven and Gran Torino.
ANSWER: Clinton "Clint" Eastwood
[10] This first film in the "Man with No Name" trilogy is based on Akira Kurosawa's Yojimbo. In it, Eastwood's character plays the Baxter and Rojo families off one another to his own benefit.
ANSWER: A Fistful of Dollars [or Per un pugno di dollari]
15. Cookies shaped like this figure's ears or perhaps his three-cornered hat are eaten on the holiday celebrating his demise. For 10 points each:
[10] Identify this Agagite, the vizier of King Ahasuerus, who plots to kill the Persian Jews.
ANSWER: Haman
[10] Haman's plot is foiled by this queen, the cousin of Mordecai whose story appears in her namesake book.
ANSWER: Esther
[10] The deliverance of the Jews from Haman's plot is celebrated on this holiday, the 14th of Adar. Haman's name is blotted out with noise when the Megillah is read on this day.
ANSWER: Purim
126-12-69-04215
16. Campi Flegrei is a "super" type of these that was recently found in Italy. For 10 points each:
[10] Name this type of geological structure, which can undergo eruptions.
ANSWER: volcanoes
[10] This type of volcano has the flattest slope and generally does not have explosive eruptions; instead it has lava flows that slowly build up a hill.
ANSWER: shield volcano
[10] This section of a volcano connects the magma chamber to the atmosphere. During an eruption, magma flows upward through it.
ANSWER: conduit
140-12-69-04216
17. This painting, housed in the Stanza della Segnatura, shows Diogenes sprawled on the steps in the foreground. For 10 points each:
[10] Name this painting depicting many ancient philosophers in the title location. In the center, Plato gestures upwards while Aristotle gestures downwards.
ANSWER: The School of Athens [or Scuolo di Atene]
[10] The School of Athens was painted by this Italian, a contemporary of Michelangelo also known by his first name.
ANSWER: Raphael [or Rafaello Sanzio da Urbino]
[10] The Stanza della Segnatura also houses this painting whose upper half shows Christ ruling in heaven while the lower half shows theologians discussing transubstantiation around an altar with the Eucharist.
ANSWER: The Disputation of the Sacrament [or La Disputa del Sacramento]
18. The speaker of this poem wonders, "And what shoulder, and what art, could twist the sinews of thy heart?" For 10 points each:
[10] Name this poem whose speaker asks "What immortal hand or eye could frame thy fearful symmetry?"
In this poem the title animal is "burning bright."
ANSWER: "The Tyger"
[10] This 18th-century English poet included "The Tyger" in his collection Songs of Experience. This man's poem "The Lamb" is found in his Songs of Innocence.
ANSWER: William Blake
[10] William Blake also included this poem about children forced into the title profession in his collection Songs of Innocence. In it, an angel tells Tom Dacre that "if he'd be a good boy, he'd have God for his father."
ANSWER: "The Chimney-Sweeper"
19. Examples of this quantity can be drawn as arrows in free-body diagrams, and its "normal" type counteracts gravity when objects sit on surfaces. For 10 points each:
[10] Name this physical quantity measured in newtons, which is given as mass times acceleration by Newton's second law of motion.
ANSWER: force
[10] A physical object is in this state when the forces and torques affecting it in all directions counteract, summing up to 0 . In the "static" type of this state, an object also has no momentum.
ANSWER: mechanical equilibrium
[10] When an object is in unstable equilibrium, it must be at this type of point along its potential energy graph.
ANSWER: local maximum [prompt critical point or extremum]
20. Answer the following about a certain West African empire, for 10 points each.
[10] This empire of the Mandinka people lasted from the thirteenth to seventeenth centuries. One of its wealthiest rulers, Mansa Musa, gave away gold on his hajj to Mecca.
ANSWER: Mali Empire
[10] This legendary founder of the Mali Empire fought the Sosso and established its capital at Niani. His namesake epic was passed down through the griots' oral traditions.
ANSWER: Sundiata Keita [or Mari Djata]
[10] In the fourteenth century, the power of the Mali Empire declined, and this empire took advantage, later spreading its influence under such leaders as Muhammad Askia.
ANSWER: Songhai Empire
21. This leader's namesake code provides the framework for the modern French legal system. For 10 points each:
[10] Name this French leader who was defeated at the Battle of Waterloo. He was unable to invade Britain after Horatio Nelson's victory at the Battle of Trafalgar.
ANSWER: Napoleon Bonaparte [or Napoleon I; or Napoleon Bonaparte]
[10] Napoleon was defeated at the Battle of Waterloo by this British politician and general who also fought in the Peninsular War.
ANSWER: Duke of Wellington [or Arthur Wellesley]
[10] Napoleon established this system, which sought to hurt Britain's economy by banning its goods. Unfortunately, it only ended up hurting the states that Napoleon had conquered.
ANSWER: Continental System
