

2020-2021 MOQBA Novice

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Packet 11

Tossups

1. **The crown-of-thorns starfish preys on these organisms. They're not sea anemones, but these organisms, unlike others in their phylum, do not have a medusa stage. Photosynthetic algae called zooxanthellae ["zow-uh-zan-theh-lai"] give these organisms their color. An increase in environment temperature or oxygen deprivation can cause these organisms to release algae in a process called (*) bleaching. Individuals of these cnidarians in class Anthozoa are called polyps. For 10 points, name these marine organisms that secrete calcium carbonate, creating large ecosystems like the Great Barrier Reef.**
ANSWER: corals [prompt on Anthozoa] <Biology> <Vishal Kanigicherla>/<ed. AK>

2. **The 2004 revolution that protested Viktor Yanukovich's election as president of Ukraine was named after this color. A "Rainbow Herbicide" that was linked to increased cancer rates and birth defects during the Vietnam War was named after this color. A Boer (*) "Free State" of this color was tangentially named after a branch of the House of Nassau that has ruled the Netherlands. For 10 points, a carcinogenic defoliant used during the Vietnam War was known as an "Agent" of what color?**
ANSWER: orange [do NOT accept or prompt on synonymous but specifically non-orange colours]
<Miscellaneous History> <Cooper Roh>/<ed. DS>

3. **A cherub in a painting from this country places his finger to his lips to "shush" two Venus putti from giving away an affair. In a painting from this country, a reclined lover hiding in the bushes was modeled after the painting's patron, the Baron de (*) Saint-Julien. In a painting from this country, a woman in a pink dress rides on a red leather seat that is pushed by her unknowing husband. For 10 points, name this home country of the Rococo artist Jean-Honore Fragonard ["jeen aa-naw-ray fra-guh-nrd"].**
ANSWER: France [or the French Republic; or Republique française] <Visual Fine Arts> <Ganon Evans>/<ed. JO>

4. **This man posited that "people who would have never thought that a religious problem could be a serious matter ... are beginning to ask themselves fundamental questions" in his book *Flying Saucers: A Modern Myth of Things Seen in the Skies*. This man proposed two perceiving functions of consciousness and two judging functions in (*) *Psychological Types*. This psychologist also proposed five archetypes, including the anima and animus. For 10 points, name this Swiss psychologist who proposed the collective unconscious.**
ANSWER: Carl Jung [or Carl Gustav Jung] <Social Science> <William Grossman>

5. **After Maud Gonne refused this poet's marriage proposal four times, this poet reflected "what lake's edge of pool" where he would find "nine-and-fifty swans" from Coole. This poet compared an old man to a "tattered coat on a stick" in a poem in which opens "that is no country for old men" and follows a narrator's journey to the East. "The falcon cannot hear the falconer" in a poem by this author which questions "what (*) rough beast...slouches towards Bethlehem to be born?" For 10 points, name this Irish poet of "Sailing to Byzantium" and "The Second Coming."**
ANSWER: William Butler Yeats <British Literature> <Ganon Evans>/<ed. SB>

6. This man responded “we will coup whoever we want!” when asked about his connection to the recent coup in Bolivia. After this man announced he was “considering taking [his company] private at \$420,” he was sued for securities fraud by the SEC. This man, who proposed the high-speed Hyperloop (*) transportation system, started a company which creates the reusable Dragon capsule and Falcon 9 rocket. A company founded by this man recently released its Model 3, a less-expensive alternative to its Model X electric SUV. For 10 points, name this founder of SpaceX and Tesla.
ANSWER: Elon Musk <Current Events> <Aadi Karthik>/<ed. SB>

7. The Riemann zeta function of this number is equal to Apéry’s constant. In every dimension greater than four, there are only this many regular polytopes. This is the smallest number in the only prime triplet. Polygons with this many sides are the subject of (*) Heron’s formula, and they have an Euler [“oiler”] line, which runs through their orthocenter, circumcenter, and centroid. Polygons with this many sides can be acute, obtuse, or right, the latter of which can be described by the Pythagorean theorem. For 10 points, give this number, the smallest odd prime.
ANSWER: 3 <Math> <Aadi Karthik>/<ed. CT>

8. The extraction of this good was centered on the Ruhr Valley in Germany. Workers in the extraction of this good were led by Arthur Scargill in a 1984 strike against closures by Margaret Thatcher. A 1950s “community” of European nations established a single market for this good and (*) steel. The British industry for the extraction of this good was centered on Newcastle and enabled the beginning of the Industrial Revolution. For 10 points, name this black rock that can be burned for fuel.
ANSWER: coal <European History> <Doug Simons>/<ed. DS>

9. This figure is a patron of potters according to a minor cult in Athens. This figure, whose name means “Forethought” in Greek, is honored in a precursor to the Olympic torch relay. This figure tricked Zeus by wrapping ox bones in fat, setting a precedent for animal sacrifices. After he was exiled to the Caucasus by Zeus, Heracles killed this figure’s tormentor, an eagle who ate his (*) liver after it regenerated daily. For 10 points, name this Titan and brother of Epimetheus who stole fire from the gods and gave it to humans.
ANSWER: Prometheus <Mythology> <Jason Loy>/<ed. LW>

10. In this novel, Cacambo convinces the Orellons not to kill the title character because he is not actually a Jesuit. This novel’s character Martin is based on Pierre Bayle, a philosophical rival of Leibniz. The title character of this novel tells his teacher that “we must cultivate our garden” regardless of whether this is the “best of all possible (*) worlds.” The title character of this novel is kicked out of Baron Thunder-ten-Tronck’s castle for kissing the baron’s niece Cunegonde, and his teacher Dr. Pangloss is a beggar when he reunites with him just before the Great Lisbon Earthquake. For 10 points, name this novel by Voltaire.
ANSWER: Candide, or *Optimism* [or Candide, ou *l’Optimisme*] <European/World Literature> <Jason Loy>

11. During this period, the government of Louisiana was overthrown during the Battle of Liberty Place. The Force Act attempted to fight paramilitary groups such as the Red Shirts who terrorized African-American voters during this period. This period ended with the Compromise of (*) 1877, which enabled the election of Rutherford B. Hayes in exchange for the withdrawal of federal troops. Former slaves were promised “Forty Acres and a Mule” by the Freedmen’s Bureau during this period. For 10 points, name the period which followed the Civil War in the American South.
ANSWER: Reconstruction <American History> <Doug Simons>/<ed. DS>

12. **The orientation of pendant groups, which are attached to the main structure of these molecules, determines the tacticity of these molecules. Thermoplastic examples of these molecules can be molded when they are heated. The creation of these molecules can be initiated by free radicals in a chain-growth method. These substances change stiffness at the (*) glass transition temperature, and some of them can be hardened with vulcanization. Teflon and rubber are examples of these molecules. For 10 points, name these molecules composed of many repeating subunits, or monomers.**

ANSWER: polymers <Chemistry> <Aadi Karthik>

13. **In a composition known by this name, poems like “Out on the lawn I lie in bed” were set to music by Benjamin Britten. Another composition given this name is Beethoven’s fifth violin sonata, and this is the nickname of Schumann’s first symphony. The most famous piece given this name has the violas play like a (*) “barking dog” and uses violin trills to represent birdsong. That piece is the first violin concerto in *The Contest Between Harmony and Invention*. For 10 points, give this nickname of a Vivaldi work that is the first in the *Four Seasons*, named for the time of year that includes April and May.**

ANSWER: Spring symphony [or Spring concerto; or Spring sonata] <Auditory FA> <Aadi Karthik>/<ed. WG>

14. **This country is home to the second largest nickel reserves in the world, after Russia. An electric railway built by Hershey’s chocolate company connects this country’s capital to a province that contains the Zapata Swamp, Matanzas. The Hotel Nacional in this country’s capital was home to a 1946 conference of organized crime (*) leaders organized by Meyer Lansky. A United States military prison off the coast of this country has been the site of internationally condemned incidents of torture. Guantanamo Bay is off the coast of, for 10 points, what Caribbean nation with capital at Havana?**

ANSWER: Republic of Cuba [or Republica de Cuba] <Geography> <William Grossman>

15. **One of these animals offers “a blood slaughter” instead of a “hilarious wedding” in a “semi-barbaric” kingdom. In that Frank Stockton short story, a suitor is given the choice to open a door, which reveals either a lady or one of these animals. This animal is asked “did he who made the Lamb (*) make thee?” before the narrator repeats “what immortal hand or eye/did frame thy fearful symmetry?” in the collection *Songs of Experience*. For 10 points, name this jungle animal which appears “burning bright/in the forests of the night” in a William Blake poem.**

ANSWER: a tiger [accept The Lady or the Tiger; accept The Tyger] <British Literature> <Ganon Evans>/<ed. SB>

16. **It’s not World War I, but this war’s Miracle of Christmas saw the successful evacuation of the X Corps [“core”] after an airdrop of Tootsie Rolls aided its breakout from the frigid Chosin Reservoir. Matthew Ridgway assumed command of UN forces during this war from a general who had been dismissed by Harry (*) Truman for wanting to nuke China. Douglas MacArthur’s amphibious landings at Inchon broke the Pusan Perimeter during, for 10 points, what 1950-1953 war between the North and South of an eponymous Asian peninsula?**

ANSWER: Korean War [or 6–2–5 Upheaval, Fatherland Liberation War, or Hanguk Jeonjaeng] <World History> <Cooper Roh><ed. DS>

17. **A chapter of this novel is an adaptation of the author’s earlier story “Slight Rebellion Off Madison.” A character in this novel gets in a fight with Stradlater after playing pinball with Brossard and Ackley, (*) and finally feels happiness while watching his sister ride a zoo carousel. The protagonist of this novel, the former student of Mr. Antolini and brother of Phoebe, muses that he would like to be the title figure to keep children safe. For 10 points, Holden Caulfield wanders around New York for a weekend after his expulsion from school in what novel by J.D Salinger?**

ANSWER: *The Catcher in the Rye* <American Literature> <ed. SB>

18. A reading during the holiday requires questions from four “sons” and is called *Haggadah*. The eating of a hidden morsel called the *afikoman* and bitter herbs known as *maror* are among the parts of the Seder ritual meal partaken during this observance. The common name of this observance, which begins on the 15th day of (*) Nisan, comes from the Angel of Death only visiting Egyptian households to kill their firstborn. For 10 points, name this Jewish holiday which commemorates the end of the Israelites’ slavery in Egypt.

ANSWER: Passover [or Pesach] <Religion> <Jason Loy>/<ed. LW>

19. “Global Swarming” and “Oh Hell No!” are two entries in a SyFy movie series about these animals. Blake Lively’s character is trapped on a rock because of one of these animals in *The Shallows*. A mechanical model of one of these animals is blown up by an exploding scuba tank at the end of a (*) 1975 movie; that model was nicknamed Bruce after Steven Spielberg’s attorney. Bethany Hamilton loses her arm to one of these animals in *Soul Surfer*. *The Meg* features a giant ancestor of, for 10 points, what animal which terrorizes Amity Island in *Jaws*?

ANSWER: sharks [accept great white sharks, tiger sharks, hammerhead sharks, or any other specific type of shark] <Popular Culture> <Ganon Evans>/<ed. SB>

20. For a loop of wire in a magnetic field, this quantity is equal to the cross product of magnetic moment and magnetic field. Gyroscope precession occurs when this quantity is non-zero, and, in general, precession is either induced by or free of this quantity. This quantity, measured in (*) Newton-meters, is the time derivative of angular momentum. This quantity is equal to the moment of inertia times the angular acceleration, but is more commonly expressed as the cross product of radius and force. For 10 points, name this quantity, the rotational analogue of force.

ANSWER: torque [prompt on tau] <Physics> <Aadi Karthik>

Tiebreaker. One of these animals lives in a palace made of coral and possesses two jewels that control the tides. Another of these animals was subdued using eight tubs of liquor and killed using the sword Kusanagi. These animals, which are known as *lung* in Chinese mythology, include the sea god (*) Ryu-jin and the eight-headed Yamata no Orochi. This animal is the only fictional one in the Chinese zodiac. For 10 points, name these fearsome creatures whose Western counterparts are commonly depicted breathing fire.

ANSWER: dragon [or serpent] <Mythology> <Luc Wetherbee>/<ed. LW>

Bonuses

1. Old Man Warner believes that if the title ritual of this story occurs in June, “corn be heavy soon.” For 10 points each:

[10] Name this short story in which Tessie Hutchinson is killed after drawing a slip of paper with a black dot.

ANSWER: “The **Lottery**”

[10] This author of “The Lottery” also wrote the novels *The Haunting of Hill House* and *We Have Always Lived in the Castle*.

ANSWER: Shirley **Jackson**

[10] In “The Lottery,” Tessie Hutchinson is killed in this manner. The Biblical Stephen died in this way, and Saul of Tarsus, later Paul, was a member of the mob that participated in this method of execution.

ANSWER: **stoning** [accept word forms] <American Literature> <Jason Loy>/<ed. SB>

2. This person was granted an audience with the king after predicting the outcome of the Battle of Rouvray. For 10 points each:

[10] Name this woman, nicknamed the Maid of Orleans, burned at the stake in 1431 for heresy after fighting for the French against the English at battles such as Patay and the siege of Jargeau.

ANSWER: **Joan** of **Arc** [or **Jeanne d’Arc**]

[10] Joan of Arc fought for the French in this war, which lasted from 1337 to 1453 and was fought between branches of the Valois and Plantagenet houses.

ANSWER: **Hundred Years’ War**

[10] Joan believed that she was divinely commanded to assist this king of France, who was crowned at Reims in 1429. He reigned until 1461, when he was succeeded by his son Louis XI, the Spider.

ANSWER: **Charles VII** [or **Charles the Victorious**; or **Charles the Well-Served**; or **Charles le Victorieux**; or **Charles le Bien-Servi**; prompt on **Charles**] <European History> <Jason Loy>/<ed. DS>

3. In the Sermon on the Mount, Jesus warns about casting one’s pearls before these animals. For 10 points each:

[10] Name these animals, considered not kosher in Judaism. Jesus exorcised a demon who then possessed a herd of these animals, causing them to run off a cliff.

ANSWER: **pigs** [or **swine**]

[10] Another miracle of Jesus occurred at an event of this type in Cana, where Jesus turned water into wine.

ANSWER: **wedding** feast [or the **Wedding** at Cana]

[10] Jesus healed the severed ear of a servant of the high priest Caiaphas in this location just before his death. After the Last Supper, Jesus went to pray in this place and asked God to “let this cup pass me by.”

ANSWER: garden of **Gethsemane** [prompt on **garden**] <Religion> <Jason Loy>/<ed. LW>

4. Cyclone McKey popularized the usage of masks in this sport to distinguish between good *técnicos* and bad *rudos* during matches. For 10 points each:

[10] Name this style of Mexican wrestling. El Santo, Blue Demon, and Mil Máscaras are the “big three” who popularized this style of wrestling to American audiences.

ANSWER: **lucha libre** [prompt on lucha alone; prompt on luchadores; prompt on freestyle wrestling or free fight]

[10] El Santo has a cameo appearance entering Ernesto de la Cruz’s party in this Pixar movie. Miguel helps his great-grandmother recall her father Héctor on the Day of the Dead in this film by singing “Remember Me.”

ANSWER: **Coco**

[10] This actor plays a monk who becomes a luchador to raise money for an orphanage in the film *Nacho Libre*. He also plays a substitute teacher who teaches his class rock and roll music in *School of Rock*.

ANSWER: Jack **Black** [or Thomas Jacob **Black**] <Popular Culture> <Ganon Evans>/<ed. SB>

5. The Mond process uses the fact that this metal readily forms its carbonyl gas to purify it. For 10 points each:

[10] Name this transition metal, with symbol Ni. This metal’s 78 isotope is doubly magic, meaning that, although it has 50 neutrons and just 28 protons, it is still relatively stable.

ANSWER: **nickel** [prompt on Ni]

[10] Nickel, along with iron, cobalt, and rubidium, has this property at room temperature. This type of magnetism is permanent, and occurs due to alignment of magnetic domains.

ANSWER: **ferromagnetism** [prompt on magnetism]

[10] One of these objects uses nickel oxide hydroxide at its cathode and cadmium at its anode; that is the nickel-cadmium type of these objects, which has largely been replaced by the nickel metal hydride type.

ANSWER: **battery** [or **batteries**] <Chemistry> <Aadi Karthik>

6. This site, built by Khmer emperor Suryavarman II, was designed to resemble Mount Meru, the home of the gods in Hinduism. For 10 points each:

[10] Name this temple complex near the city of Siem Reap, the largest religious structure in the world.

ANSWER: **Angkor Wat**

[10] Angkor Wat is in this present-day country in Southeast Asia, whose capital is Phnom Penh. A depiction of Angkor Wat is on this nation’s flag on a red background between two blue stripes.

ANSWER: Kingdom of **Cambodia** [or Etat du **Cambodge**; or Democratic **Kampuchea**; or **Khmer** Republic; or People’s Republic of **Kampuchea**; or Preahreacheanachakr **Kampuchea**; or Roat **Kampuchea**; or Royaume de **Cambodge**; or State of **Cambodia**]

[10] Although originally a Hindu temple, Angkor Wat now serves followers of this religion, the most common religion in Cambodia.

ANSWER: **Buddhism** <World History> <Jason Loy><ed. DS>

7. Along with his *Atmospheres* and *Lux Aeterna*, one of these compositions by Ligeti was used in the film *2001: A Space Odyssey*. For 10 points each:

[10] Name these compositions, which may contain a *Kyrie* or *Dies Irae*. They are the Catholic mass for the dead.

ANSWER: **Requiem** masses [prompt on mass]

[10] This composer wrote a German Requiem, as well as a first symphony that critic Hans von Bulow called “Beethoven’s Tenth.” He also wrote the *Academic Festival Overture*.

ANSWER: Johannes **Brahms**

[10] Krzysztof Penderecki wrote a requiem titled for this country, his homeland. Other composers from this country include Frederic Chopin.

ANSWER: **Poland** [or Republic of **Poland**; or Rzeczpospolita **Polska**] <Auditory FA> <Aadi Karthik>/<ed. WG>

8. Neither of the objects involved in this type of collision undergo deformation. For 10 points each:

[10] Name this kind of collision in which total kinetic energy is conserved.

ANSWER: **elastic** collision

[10] Unlike kinetic energy, this quantity is always conserved when a collision occurs in a closed system. This quantity is often expressed as the product of an object’s mass and its velocity.

ANSWER: linear **momentum** [prompt on p]

[10] This quantity is the change in momentum when a force is applied to an object. Alternatively, it can be defined as the time integral of applied force.

ANSWER: **impulse** [prompt on J] <Physics> <Jason Loy>

9. In this novel, Nicholas Bulstrode offers a loan to Doctor Lydgate in return for letting John Raffles go untreated and die. For 10 points each:

[10] Name this 1872 realist novel exploring class relations in the title provincial town. Edward Casaubon’s will would forbid his wife Dorothea Brooke from remarrying in this novel.

ANSWER: **Middlemarch**: *A Study of Provincial Life*

[10] *Middlemarch* is by this English author who chronicled life on the Tulliver Mill in *The Mill on the Floss*.

ANSWER: George **Eliot** [or Mary Ann **Evans**]

[10] This other Eliot novel follows the title Calvinist weaver who is forced to leave Lantern Yard after William Dane frames him for theft.

ANSWER: **Silas Marner** <British Literature> <Ganon Evans>

10. This instrument’s name can be translated roughly as “dancing flea.” For 10 points each:

[10] Name this 4-stringed guitar-like instrument, famously played by Israel Kamakawiwo‘ole [“kah-mah-kah-wee-oooh-lay”] on his medley of “Over the Rainbow” and “What a Wonderful World.”

ANSWER: **ukulele**

[10] The ukulele hails from this archipelago, which became a U.S. state in 1959.

ANSWER: **Hawaii**

[10] The ukulele is said to have originated from the *machete*, a string instrument from the island of Madeira in this country. Folk music in the country is characterized by the melodramatic genre of *fado*.

ANSWER: **Portugal** [or **Portuguese** Republic; or Republica **Portuguesa**] <Other Fine Arts> <Max Shatan>/<ed. JO>

11. The first volume of this book opens with the author stating that man is the “default,” and describes the title people as the “other.” For 10 points each:

[10] Name this 1949 work of feminist philosophy by a French existentialist thinker, often considering the starting point of second wave feminism.

ANSWER: The **Second Sex** [or Le **Deuxième Sexe**]

[10] *The Second Sex* was written by this French thinker who also wrote novels such as *She Came to Stay*.

ANSWER: Simone de **Beauvoir** [or Simone Lucie Ernestine Marie Bertrand de **Beauvoir**]

[10] The work of Simone de Beauvoir influenced many later feminist thinkers, including Betty Friedan, who interviewed women from Smith College to complete *The Feminine Mystique* in this country.

ANSWER: **United States** of America [or **America**; or the **USA**] <Philosophy> <William Grossman>/<ed. JO>

12. Answer the following about famous speeches in American history. For 10 points each:

[10] This Virginian orator urged fellow convention delegates to break away from British rule by declaring, “but as for me, give me liberty, or give me death!”

ANSWER: Patrick **Henry**

[10] This short speech by Abraham Lincoln given on a Pennsylvania battlefield challenged listeners to return to the ideals of a nation established “four score and seven years ago.”

ANSWER: **Gettysburg Address**

[10] This President asked “fellow Americans” to “ask not what your country can do for you, but what you can do for your country” in his inaugural address, as well as offering “a new alliance of progress” to “our sister republics south of the border”.

ANSWER: **John Fitzgerald Kennedy** [or **John F. Kennedy**; prompt on **Kennedy**] <American History> <Jason Loy>/<ed. DS>

13. Upon becoming one of these stars, the sun will engulf Mercury, Venus, and Earth. For 10 points each:

[10] Name this type of star, named for its bright color and large size. Examples of this kind of star include Mira and Aldebaran, and these stars are not to be confused with their bigger “super” variety.

ANSWER: **red giant** [prompt on partial answer]

[10] Red giants appear red because of their low value for this quantity, around 4000 Kelvin.

ANSWER: **temperature**

[10] Red giants are located above this diagonal region on a Hertzsprung-Russell diagram, which most stars, including the sun, fall into. It stretches from the bottom right to the top left.

ANSWER: **main sequence** <Astronomy> <Aadi Karthik>

14. The manuscript for this novel was typed on a 120 foot long taped-together piece of paper that the author called “the scroll.” For 10 points each:

[10] Name this semi-autobiographical novel following the libertine travels of Dean Moriarty, based on Neal Cassady, and Sal Paradise, the alter-ego of its author, Jack Kerouac.

ANSWER: **On the Road**

[10] Kerouac was the most prominent member of this countercultural literary movement of the 1950s, whose other members included Gary Snyder, William Burroughs, and Kenneth Rexroth.

ANSWER: **Beat** movement [or **Beat** generation]

[10] This other Beat poet was stylized as “Carlo Marx” in *On the Road*. This author of “A Supermarket in California” is best known for his long poem *Howl*.

ANSWER: Allen **Ginsberg** <American Literature> <Jason Loy>/<ed. SB>

15. Edgar Degas collected four pieces of a massive painting in which a crowd stares over a wall at this figure in a sombrero. For 10 points each:

[10] Name this figure, who is shot alongside two officers by a firing squad in an 1869 Édouard Manet painting titled for this figure's "Execution."

ANSWER: Emperor **Maximilian I** [or *The Execution of Maximilian I*; or Fernando **Maximiliano** José María de Habsburgo-Lorena]

[10] Manet's *The Execution of Maximilian I* mirrors this 1814 painting, in which a single box illuminates a man in white in a Christ-like pose facing a firing squad.

ANSWER: *The Third of May, 1808* [or **El Tres de Mayo de 1808**, en Madrid, or **Los fusilamientos de la montaña del Príncipe Pío**, or **Los fusilamientos del tres de mayo**]

[10] This Spanish artist of *The Third of May, 1808* created the Black Paintings while suffering from deafness.

ANSWER: Francisco **Goya** [or Francisco José de **Goya** y Lucientes] <Visual Fine Arts> <Ganon Evans>/<ed. JO>

16. According to the Book of the Dead, a deceased person's *akh* would appear before Osiris in the Hall of Truth to perform a ceremony named for this body part. For 10 points each:

[10] Name this organ whose weight determined whether a soul would enter the Field of Reeds.

ANSWER: **heart**

[10] A deceased person's heart was weighed by Osiris against this object owned by Ma'at, a goddess of justice. Pure hearts were lighter than this object.

ANSWER: **feather**

[10] This jackal-headed god of embalming and mummification led the dead to the Hall of Truth for the Weighing of the Heart ceremony.

ANSWER: **Anubis** <Mythology> <Jason Loy>/<ed. LW>

17. The initial design for this structure was created by Joseph Strauss in 1917. For 10 points each:

[10] Name this suspension bridge that spans a namesake strait connecting a certain part to the Pacific Ocean. One end of this bridge sits at the entrance to Marin County.

ANSWER: **Golden Gate** Bridge

[10] The Golden Gate Bridge connects Marin County to San Francisco, a city in this U.S. state that also includes cities such as San Diego and Anaheim.

ANSWER: **California**

[10] Another county in the San Francisco metro area is Napa County, which includes a namesake county noted for its abundance of producers of this substance, such as Chateau Montelena.

ANSWER: **wine** [or specific kinds of wine, such as grape **wine**] <Geography> <William Grossman>

18. This process is typically split into light-dependent and light-independent reactions. For 10 points each:

[10] Name this process, which produces glucose and oxygen from carbon dioxide and water. It occurs in the chloroplasts of plant cells.

ANSWER: **photosynthesis**

[10] The first step of the light-independent reactions is carbon fixation, in which this enzyme converts ribulose biphosphate and carbon dioxide into 3-phosphoglyceric acid.

ANSWER: **RuBisCo** [or **ribulose biphosphate carboxylase**]

[10] While the light-independent reactions take place within the stroma, the light-dependent reactions take place in the membranes of these structures in the chloroplast. Stacks of these structures are called grana.

ANSWER: **thylakoids** <Biology> <Bo Chi>/<ed. AK>

19. Ousmane Sembene set the novel *God's Bits of Wood* on this continent, and Wole Soyinka was the first Nobel laureate in literature from this continent. For 10 points each:

[10] Name this continent, the literature of whose southernmost country includes Alan Paton's criticism of racial segregation. Chinua Achebe is another writer from this continent.

ANSWER: **Africa**

[10] The aforementioned Chinua Achebe's best known work is this novel about the former wrestler Okonkwo's struggle to adjust to changes to his native village of Umuofia.

ANSWER: **Things Fall Apart**

[10] In *Things Fall Apart*, Okonkwo disowns his son Nwoye after Nwoye converts to this religion, taught to him by British missionaries.

ANSWER: **Christianity** [prompt on Christian denominations, such as Catholicism] <European/World Literature> <Jason Loy>/<ed. JO>

20. Answer the following questions about the development of writing. For 10 points each:

[10] The first known example of writing comes from this system used in ancient Mesopotamia. The name for this writing system derives from the wedges used to carve this writing system into clay tablets.

ANSWER: **cuneiform**

[10] This sort of writing system was first developed by the Phoenicians. The word for this system comes from the first two letters of the Greek example of it, who first added vowels to this type of writing system.

ANSWER: **alphabet**

[10] The Phoenician alphabet was derived from symbols from this earlier writing system. The Demotic alphabet replaced this writing system, which was first translated in modern times with the help of the Rosetta Stone.

ANSWER: Egyptian **hieroglyphics**

<Miscellaneous History> <Doug Simons>/<ed. DS>