

2020-2021 MOQBA Novice

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Packet 10

Tossups

1. Merry Levov bombs a post office to protest an event in this country in Philip Roth's novel *American Pastoral*. A collection set largely in this country details the combat experiences of characters like Henry Dobbins, Jimmy Cross, and Ted Lavender; that collection is Tim O'Brien's *The Things They* (*) *Carried*, and Stanley Kubrick changed the setting of his film *Apocalypse Now* to this country, instead of its source material's setting of Congo. For 10 points, name this Southeast Asian country in which the US fought a war in the 1960s and 1970s.

ANSWER: Vietnam <American Literature> <Jason Loy>/<ed. SB>

2. This artist composed a piece where one could choose to scream "against the wall," "against the sky," or "against the wind," titled *Vocal Piece for Soprano*. This artist collected a number of Fluxus-inspired event scores in the book *Grapefruit*. This artist participated in Bed Ins for Peace to protest the Vietnam War alongside her husband, who was photographed lying (*) nude with her by Annie Leibovitz. This artist funded the "Strawberry Fields" memorial to honor her husband, who was murdered by Mark David Chapman. For 10 points, name this Japanese conceptual artist and musician, the wife of John Lennon.

ANSWER: Yoko Ono [or Ono Yoko] <Other Fine Arts> <Max Shatan>/<ed. JO>

3. These systems are described by the equation [read slowly] the second time derivative of theta is equal to negative g sin theta over L. That differential equation describing these systems is easily solved by replacing sin of theta with theta in the small-angle approximation. The (*) period of these systems is equal to two pi times the square root of the length over gravitational acceleration. Leon Foucault used one of these systems to demonstrate the rotation of the Earth. For 10 points, name these systems, which consist of a mass suspended from a pivot and can be found in namesake clocks.

ANSWER: pendulums [prompt on simple harmonic oscillators] <Aadi Karthik> <Physics>

4. During this dynasty, the Zhengtong emperor was captured during a campaign against the Oirat Mongols in the Tumu crisis. After winning the battle of Lake Poyang, the Hongwu emperor founded this dynasty. The Great Bao'en Temple was repaired by this dynasty's Xuande Emperor, who was the successor of the Yongle ["Yong-le"] Emperor. This dynasty was formed following the (*) Red Turban Rebellion, and treasure voyages from this dynasty were led by Zheng He. For 10 points, name this dynasty that succeeded the Yuan and preceded the Qing, known for its porcelain vases.

ANSWER: Ming Dynasty <World History> <Aadi Karthik><ed. DS>

5. In a controversial music video by this band, a little girl in a Ku Klux Klan uniform dances around a crucified Jesus. Before forming the Foo Fighters, Dave Grohl played drums in this band. The song "Come As You Are" appears on this band's album *Nevermind*, whose album cover features a baby chasing a dollar in a swimming pool. The vocalist sings "with the (*) lights out, it's less dangerous" in a song by this band, whose music video takes place at a high school pep rally. "Smells Like Teen Spirit" is a song by, for 10 points, what grunge band fronted by Kurt Cobain?

ANSWER: Nirvana <Popular Culture> <Ganon Evans>/<ed. SB>

6. **Expression of the FoxO gene can inhibit this process in animals in the genus *Hydra*. The Hayflick limit causes this process at the cellular level, and in vertebrates, this process can occur due to overhangs of TTAGGG repeats during DNA replication. This process, also known as senescence, may occur in humans as a result of (*) telomeres shortening each time a cell divides. This process may result in decreased fertility, increased mortality rates, and gray hair in humans. For 10 points, name this process, which occurs as one gets older.**

ANSWER: aging [or senescence before mentioned, prompt on descriptions such as getting older until mentioned, prompt on death or apoptosis] <Biology> <Vishal Kanigicherla>/<ed. AK>

7. **Muley Graves tells one character in this novel that his family went to Uncle John's to chop cotton. Winfield, who throws up at the sight of a dead dog, and Ruthie are the youngest members of the central family of this novel. A peach pickers' strike at Hooper Ranch (*) leads police to kill Jim Casy, after which Tom leaves his family. This novel ends with Rose of Sharon, whose child was stillborn, breastfeeding a dying old man. For 10 points, name this novel about the Joad family's journey from Oklahoma to California during the Dust Bowl, written by John Steinbeck.**

ANSWER: *The Grapes of Wrath* <American Literature> <Jason Loy>/<ed. SB>

8. **While besieging the city of Tyre, this general built an artificial causeway to bring siege weapons up to the island's walls. The Mutiny at Opis blocked this ruler from continuing an invasion of India after he had earlier defeated King Porus at the Battle of the Hydaspes. He defeated his most notable opponent at the Battles of (*) Issus and Gaugamela. The Diadochi were generals of this ruler who carved up his empire following his death. For 10 points, name this Macedonian general and ruler who conquered the Persian Empire, ushering in the Hellenistic era.**

ANSWER: Alexander the Great [or Alexander III of Macedon; prompt on Alexander] <Miscellaneous History> <Doug Simons>/<ed. DS>

9. **This composer combined E and C-flat major triads to create a dissonant chord used in his opera *Elektra*. A theme played by the French horn represents the title folk hero of this composer's *Till Eulenspiegel's Merry Pranks*. A "Dance of the Seven Veils" is found in this composer's opera *Salome*, but he's better known for writing tone poems, including *A Hero's Life*. This composer's most famous work, which opens with a rising (*) C-G-C in the trumpets representing sunrise, was featured in *2001: A Space Odyssey*. For 10 points, name this German composer of *Also Sprach Zarathustra*.**

ANSWER: Richard Strauss [prompt on Strauss; do NOT accept or prompt on "Johann Strauss Sr." or "Johann Strauss Jr."] <Auditory FA> <Aadi Karthik>/<ed. WG>

10. **This country is home to the Syro-Malabar Catholic Church, members of which believe was founded by St. Thomas. Only two of the twenty-four "ford-makers" of another religion started in this country are acknowledged as historical figures. This country is home to the world's largest number of followers of both (*) Jainism and Sikhism, as well as the world's largest minority Muslim population. Although not born here, Siddharta Guatama preached mainly in this country later in life. For 10 points, name this country, the cradle of both Buddhism and Hinduism.**

ANSWER: Republic of India [or Bharatavarsha] <Religion> <Jason Loy> </ed. LW>

11. Characters in this novel attend a “feely” based on Othello titled *Three Weeks in a Helicopter*. After watching a ceremony in which a boy is whipped while navigating between snakes in Malpais, Lenina meets a character who had been gifted *The Complete Works of Shakespeare* (*) by Popé. Helmholtz Watson and Bernard Marx are exiled by Mustapha Mond after fighting a group of “alpha” and “beta” clones. John the Savage hangs himself in a lighthouse at the end of, for the 10 points, what dystopian novel about the soma-consuming World State by Aldous Huxley?

ANSWER: Brave New World <British Literature> <Ganon Evans>/<ed. SB>

12. Triglav is the highest peak in the easternmost range of this mountain system, which reaches into Slovenia. Theodul Pass is to the east of a mountain in this range, first climbed by Edward Whymper. It’s not the Carpathians, but *edelweiss* is a plant endemic to these mountains. A breed of rescue dog is named for the St. (*) Bernard Pass in this mountain range, the site of the Matterhorn. Mont Blanc is the highest peak in, For 10 points, this European mountain range that covers much of Austria, Italy, and Switzerland.

ANSWER: Alps <Geography> <Jason Loy>/<ed. WG>

13. The health section of the NFPA diamond that ranks potential hazards is this color. In the Birch reduction, a solution of this color is formed from the solvation of electrons in ammonia. An octahedral iron complex with cyanide ligands forms the “Prussian” pigment of this color. A common pH indicator uses a (*) bromothymol derivative named for this color. Flame tests make use of a glass of this color that contains cobalt, and this color is often assigned to nitrogen in ball-and-stick organic models. For 10 points, name this color that litmus paper turns in the presence of a base.

ANSWER: blue [accept Prussian blue; accept bromothymol blue] <Chemistry> <Stefan Calin>/<ed. AK>

14. This culture believed that their predecessors turned into fish, and that they lived in the era of Nahui-Ollin, or the “fifth sun.” A war god of these people was known as a left-handed hummingbird who told them to settle where they saw an eagle eating a snake; that god is Huitzilopochtli [“weeet-see-luh-powch-tuh-lee”]. One son of Coatlicue depicted as a monstrous dog, (*) Xolotl, is the twin brother of a feathered serpent in this mythos. For 10 points, name this Mesoamerican civilization, whose emperor Montezuma II believed Hernan Cortes to be their god Quetzalcoatl [“ket-suhl-kuh-waa-tl”].

ANSWER: Aztecs [or Mexica or Nahuatl] <Mythology> <Jason Loy> /<ed. LW>

15. John Conroy developed the Kensington System to guide this leader’s upbringing. This monarch was rumored to be secretly married to her servant John Brown. This last British monarch from the House of Hanover was succeeded by her son Edward VII. She was given the title Empress of (*) India by Benjamin Disraeli. This monarch’s popularity plummeted drastically after a self-imposed isolation after the death of her mother and her husband, Prince Albert. For 10 points, name this Queen of England from 1837 to 1901.

ANSWER: Queen Alexandrina Victoria <European History> <Jason Loy>/<ed. DS>

16. An artwork by this man was made in accordance with the principles laid out in book 3 of *De Architectura*. A sketch by this artist features a scraggly-haired man with four arms and four legs inscribed inside of a circle. This artist’s notebook includes his sketch of the (*) *Vitruvian Man*. A painting by this artist was commissioned by Francesco del Giocondo and depicts a woman with an “enigmatic smile.” For 10 points, name this Italian Renaissance painter of the *Mona Lisa*.

ANSWER: Leonardo da Vinci [or Leonardo da Vinci] <Visual Fine Arts> <Jacob O’Rourke>

17. Fred Hoyle derisively gave this concept its current name, as he supported the steady-state theory instead. This concept, which was formulated by Georges Lemaitre, was expanded on by the Alpha Beta Gamma paper, written by Ralph Alpher and George Gamow. This event may have preceded a period of (*) inflation. The cosmic microwave background radiation was produced by this event, which occurred about 13.77 billion years ago. For 10 points, name this event during which the universe was formed from a cosmic singularity.

ANSWER: **Big Bang** Theory [prompt on descriptive answers like the beginning of the universe]
<Astronomy> <Aadi Karthik>

18. In *Green v. New Kent County*, the Supreme Court ruled that a “freedom of choice” policy did not legally fulfill this obligation. Hazel Bryant harasses Elizabeth Eckford in a famous photograph of one example of this action. One ruling requiring this action prescribed that it should be done “with all (*) deliberate” speed. Another instance of this action was resisted by Arkansas governor Orval Faubus and involved the Little Rock Nine. For 10 points, name this process mandated by the Supreme Court case *Brown v. Board of Education*.

ANSWER: **school desegregation** [or **school integration**; prompt on (racial) desegregation or (racial) integration] <American history> <Jason Loy>/<ed. DS>

19. This character tells Theseus that “only the gods can never age” in a play in which he seeks refuge in Colonus. This man was given his name, meaning “swollen feet,” by a shepherd at three days of age. His sons Eteocles and Polyneices kill each other in a duel. This character partially fulfilled a prophecy by killing a drunken chariot driver. This husband of (*) Jocasta blinds himself when he discovers that his four children are also his grandchildren. For 10 points, name this Greek antihero who killed his father and married his mother in a Sophocles trilogy.

ANSWER: **Oedipus** <European/World Literature> <Jason Loy>/<ed. JO>

20. G.E.M Anscombe was one of many philosophers at the center of a revival of a “virtue” form of this field of study in the past half-century. A book on a subtype of the “normative” form of this field of study takes inspiration from Jeremy Bentham and discusses the “greatest happiness principle.” That book by (*) J.S. Mill is titled *Utilitarianism*. Deontology is a form of this field of study used in Immanuel Kant’s categorical imperative. For 10 points, name this field of philosophy, which follows *Nicomachean* in the title of an Aristotle work.

ANSWER: **ethics** [or Virtue Ethics; or *Nicomachean Ethics*] <Philosophy> <William Grossman>

Tiebreaker. MALDI or ESI can be used to create these species for use in one technique. Molecules that dissociate into these species in water have a van’t Hoff factor greater than one, and are called electrolytes. These species are analyzed based on their mass-to-charge ratio in (*) mass spectrometry. The pH is defined as the negative logarithm of the concentration of one of these species. A neutral atom becomes one of these species if it gains or loses an electron. For 10 points, name these species, which are atoms or molecules with a net charge.

ANSWER: **ions** [accept specific types of ions like **cations** or **anions** or hydrogen **ions**, prompt on molecules] <Chemistry> <Aadi Karthik>

Bonuses

1. Leonhard Euler proved that the sum of the reciprocals of these numbers is infinite. For 10 points each:
[10] Give these numbers, which Euclid proved the infinitude of. The only even one of these numbers is 2.
ANSWER: **prime** numbers

[10] Euler built on Euclid's work on perfect numbers by proving the Euclid-Euler Theorem, which states that there is a bijection between perfect numbers and Mersenne primes, which are one less than one of these numbers.

ANSWER: **powers of two** [accept descriptive answers, prompt on binary numbers]

[10] A corollary of the Euclid-Euler theorem is that all perfect numbers are these numbers. These numbers are of the form n times $n+1$ all over 2, and the n th one of them is the sum of the first n positive integers.

ANSWER: **triangular** numbers <Math> <Aadi Karthik>/<ed. CT>

2. Answer the following about the history of agriculture in the United States. For 10 points each:

[10] Henry Hall reportedly began the cultivation of this fruit in acidic peat bogs in Massachusetts in 1816. Quebec and Wisconsin are now the leading producers of this tart fruit.

ANSWER: **cranberries**

[10] Many freed slaves subsisted on this farming practice, in which tenant farmers rented land and paid the landowner with a portion of their harvest.

ANSWER: **sharecropping**

[10] This 1862 act of Congress created thousands of new namesake farms by granting 160 acres unclaimed land to any American citizen.

ANSWER: **Homestead** Act <American History> <Jason Loy>/<ed. DS>

3. The creator of these images claimed to be inspired by a disfigured wheel of cheese. For 10 points each:

[10] Name these mechanical devices, three of which are depicted melting over a table, a tree branch, and a shadowy figure in the painting *The Persistence of Memory*.

ANSWER: **clocks** [or **watches** or **timepieces**]

[10] This Surrealist artist painted *The Persistence of Memory*.

ANSWER: Salvador **Dali** y Domenech

[10] Dali called this child actress of the 1930s *The Most Sacred Monster of Cinema in Her Time* in a painting in which her face replaces that of a red-bodied Sphinx.

ANSWER: Shirley **Temple** Black <Visual Fine Arts> <Jason Loy>/<ed. JO>

4. At the end of this novel, Celie reunites with her sister Nettie, who had been doing missionary work in Africa with her adoptive parents Samuel and Corrine. For 10 points each:

[10] Name this novel detailing Celie's struggle against abusive men such as her father Alphonso and her husband Mister. Its title refers to the observation that the title concept, although simple, can be thought of as a gift from God.

ANSWER: *The* **Color Purple**

[10] This author of *The Third Life of Grange Copeland* is best known for writing *The Color Purple*.

Recently, she has attracted controversy for defending antisemitic conspiracy theorist David Icke.

ANSWER: Alice **Walker**

[10] Walker coined the term "womanism" as a black-focused version of this philosophy, which advocates the equality of the sexes. Other proponents of this movement include Betty Freidan and Gloria Steinem.

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

5. In 1953, William Leontief reached the paradoxical conclusion that this country exported labor-intensive commodities and imported capital-intensive commodities despite a capital abundance. For 10 points each:

[10] Name this country, also the subject of a namesake *Monetary History* by Milton Friedman.

ANSWER: The **United States** of **America** [accept either underlined portion, accept **USA**]

[10] Milton Friedman advocated for a negative type of this tax. This tax is levied progressively in the United States, and taxes the amount of money one makes in a year.

ANSWER: **Income** tax

[10] Friedman taught a group of economists known as the Chicago Boys, who advised this country's dictator Augusto Pinochet after a coup overthrew Pinochet's socialist predecessor, Salvador Allende.

ANSWER: **Chile** [or Republic of **Chile**; or Republica de **Chile**] <Social Science> <Aadi Karthik>/<ed. WG>

6. Throwing a discus is dangerous business in Greek mythology. For 10 points each:

[10] This god's lover, Hyacinth, was killed when a discus thrown by this god mistakenly struck her in the head, with possible intervention from a jealous Zephyrus.

ANSWER: **Apollo**

[10] In what may be a variant of the Apollo and Hyacinth myth, Crocus, the companion of this god, is also killed by a thrown discus. This messenger god carries the Caduceus staff and winged sandals.

ANSWER: **Hermes**

[10] The prophecy of King Acrisius' death is fulfilled when this hero mistakenly kills him with a discus during funeral games. This hero accomplished his most celebrated feat using a mirror shield.

ANSWER: **Perseus** <Mythology> <Lalit Maharjan>

7. These structures are key components in maintaining turgor pressure in plant cells. For 10 points each:

[10] Name these organelles, which surround the cell membrane. In certain organisms such as fungi, these structures can be made up of chitin, but in plants they are composed of cellulose.

ANSWER: cell **walls**

[10] In this phase of the cell cycle, the phragmoplast allows for the formation of a cell plate, which eventually becomes the cell wall between two daughter cells.

ANSWER: **cytokinesis** [prompt on **mitosis**]

[10] The cell walls of species in this domain lack peptidoglycan. Some species in this domain can withstand high amounts of heat, salinity, or radiation, and are known as extremophiles.

ANSWER: **Archaea** [or **archaeobacteria**] <Biology> <Vishal Kanigicherla>/<ed. AK>

8. 2020 protests in this country centered on widespread electoral fraud to hurt the candidacy of Sviatlana Tsikhanouskaya ["s-vet-lan-ah teek-hah-noov-sky-uh"]. For 10 points each:

[10] Name this country ruled by Alexander Lukashenko, who is often known as "Europe's last dictator."

ANSWER: Republic of **Belarus**

[10] During the protests, Lukashenko met with this leader to ask for military support. This current President of Russia has denied ordering the poisoning of his former rival Alexei Navalny.

ANSWER: Vladimir Vladimirovich **Putin**

[10] Putin's other incursions into eastern Europe included the capture of this region from Ukraine in 2014. This peninsular region is now a republic in the Russian Federation with capital at Simferopol.

ANSWER: **Crimea** [or **Crimean** Peninsula; or Republic of **Crimea**] <Current Events> <Arjun Nageswaran>/<ed. SB>

9. Charlotte Brontë inspired this author's Gondal poems by gifting her Walter Scott's *The Tales of a Grandfather*. For 10 points each:

[10] Name this Brontë sister, whose only complete novel ends with Lockwood passing the grave of Catherine Earnshaw near the title *Wuthering Heights*.

ANSWER: Emily Brontë [accept either underlined Ellis Bell]

[10] The ghost of Catherine Earnshaw torments this cruel landlord of Wuthering Heights to death. This man forces his son Linton to marry Catherine's daughter Cathy in an effort to gain ownership of Thrushcross Grange.

ANSWER: Heathcliff

[10] Heathcliff exemplifies a Victorian "hero" character archetype named after this British poet. This poet's *Childe Harold's Pilgrimage* mirrors his own travels across the Mediterranean before dying in the Greek War for Independence.

ANSWER: Lord Byron [or George Gordon Byron; accept byronic hero] <British Literature> <Ganon Evans>/<ed. SB>

10. Leather cannons used by this man's army allowed his artillery unprecedented mobility in combat. For 10 points each:

[10] Name this Swedish ruler nicknamed "The Lion of the North," who was advised by Axel Oxenstierna and transformed Sweden into a leading European power.

ANSWER: Gustavus II Adolphus

[10] Gustavus Adolphus led the Swedish army during its intervention this long European conflict during the 17th century, which divided Protestants and Catholics in the Holy Roman Empire. He was killed at this war's battle of Lützen.

ANSWER: Thirty Years' War

[10] Prior to entering the Thirty Years' War, Gustavus warred with several of Sweden's neighbors, including this country, from which he seized Ingria during its Time of Troubles. Swedish king Charles XII was later defeated at Poltava trying to invade this country.

ANSWER: Tsardom of Russia

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

11. A variant of this law states that Δv is equal to the exhaust velocity times the natural logarithm of the mass fraction. For 10 points each:

[10] Name this law, which is more commonly expressed as "net force equals mass times acceleration" when mass is constant.

ANSWER: Newton's second law [prompt on partial answer, prompt on F net equals ma]

[10] The aforementioned variant of Newton's second law is named for Konstantin Tsiolkovsky and these vehicles, which it is most commonly used to describe.

ANSWER: rockets

[10] The Tsiolkovsky rocket equation can be used to calculate the required mass fraction to attain this velocity, the minimum velocity needed to break free from Earth's gravitational pull.

ANSWER: Earth's escape velocity <Physics> <Aadi Karthik>

12. This man's third husband Travis accidentally shot himself in front of this man's campaign manager to be the Libertarian Governor of Oklahoma. For 10 points each:

[10] Name this former owner of GW Zoo, who was arrested after allegedly hiring a hitman to kill animal activist Carole Baskin. This bizarre man's life is chronicled in Netflix's *Tiger King*.

ANSWER: Joe **Exotic** [or Joseph Allen **Maldonado**-Passage; or Joseph Allen-Maldonado-**Passage**; accept Joe **Schreibvogel**]

[10] *Tiger King* is a series in this genre. This broad genre of nonfiction media includes Michael Moore films like *Bowling for Columbine* and a 2020 series about Michael Jordan, *The Last Dance*.

ANSWER: **documentaries** [or **docuseries**; accept any answer talking about **documentary** media]

[10] This Gabriela Cowperthwaite documentary chronicles the mistreatment of orcas in captivity, and was inspired after the whale Tilikum killed three people in captivity.

ANSWER: **Blackfish** <Popular Culture> <Ganon Evans>/<ed. SB>

13. Notable players of this instrument include Sigurd Rascher, Frederick Hemke, and John Sampen. For 10 points each:

[10] Name this instrument, which was also played by jazz greats such as Cannonball Adderley, Ornette Coleman, and Charlie Parker.

ANSWER: **Alto Saxophone** [Prompt on **saxophone**; do NOT accept or prompt on "Tenor Saxophone," "Baritone Saxophone," or "Soprano Saxophone"]

[10] This American composer dedicated his saxophone quartet piece Four^s ["four-five"] to John Sampen. He wrote many *Imaginary Landscapes*, and David Tudor premiered his piece 4'33" ["four minutes, thirty three seconds"].

ANSWER: John **Cage** [or John Milton **Cage**, Jr.]

[10] This French composer wrote a *Rhapsody for Alto Saxophone*, as well as *Clair de Lune*, the third movement of his *Suite Bergamasque*.

ANSWER: Claude **Debussy** [or Achille-Claude **Debussy**] <Auditory FA> <Aadi Karthik>/<ed. WG>/<ed. JO>

14. Answer the following about major figures in French literature. For 10 points each:

[10] The taste of a madeleine dipped in tea awakens the protagonist's memories in this author's seven-volume novel *In Search of Lost Time*.

ANSWER: Marcel **Proust**

[10] This existentialist Algerian-born author of *The Myth of Sisyphus* wrote about Meursault's murder of a man walking along a beach and his indifference toward his mother's death in *The Stranger*.

ANSWER: Albert **Camus**

[10] The protagonist of Camus's *The Plague*, Bernard Rieux, has this profession and chooses to die rather than flee to safety. Flaubert's character Charles Bovary, Emma's husband, also has this profession.

ANSWER: **doctor** <European/World Literature> <Jason Loy>/<ed. JO>

15. A leader of this country said there would be “no victor, no vanquished” following the defeat of a state that tried to break away from this country. For 10 points each:

[10] Name this former British colony rocked by a brutal civil war from 1967 to 1971. Lagos is the largest city in this most populous country in Africa.

ANSWER: Federal Republic of **Nigeria**

[10] Because of a Nigerian blockade, almost two million people starved to death in this breakaway state in eastern Nigeria during the Civil War. This state was dominated by politicians of Nigeria’s Igbo ethnic group.

ANSWER: Republic of **Biafra** [or the **Biafran War**]

[10] During the civil war, Nigeria was ruled by a military dictatorship of officers from the northern part of the country, where a majority of people practice this religion. The Hausa are the main Nigerian ethnic group that practice this religion, which the Sokoto Caliphate promoted before British colonization.

ANSWER: **Islam** [or Al-**Islam**] <World History> <Doug Simons><ed. DS>

16. In a September 1938 agreement, the leaders of the UK, France, and Italy agreed to allow this country to annex the portion of the Sudetenland controlled by Czechoslovakia. For 10 points each:

[10] Name this country, whose Third Reich would go on to invade Poland a year later, starting World War II.

ANSWER: **Germany** [or Nazi **Germany**; or **Deutschland**]

[10] This British prime minister and proponent of appeasement was given a hero’s welcome after negotiating the Munich Agreement in 1938, but would resign the next year in favor of Winston Churchill.

ANSWER: Neville **Chamberlain** [or Arthur Neville **Chamberlain**]

[10] Upon returning from Munich, Chamberlain used this four word phrase to summarize the agreement. Apparently, Hitler did not agree, referring to the agreement as “a scrap of paper” before invading Poland.

ANSWER: **“peace for our time”** <European History> <Jason Loy>/<ed. DS>

17. This country borders the North Pacific Ocean, North Atlantic Ocean, and Arctic Ocean, hence its motto, “from sea to sea.” For 10 points each:

[10] Name this country, which is separated from the United States by the 49th parallel.

ANSWER: **Canada**

[10] This Canadian city’s namesake islands were formed by erosion of the Scarborough Bluffs, and they are the only islands located on Lake Ontario’s western shores. This is the most populous city in Ontario.

ANSWER: **Toronto**

[10] This peak in the Saint Elias Mountain range is the highest mountain in Canada. It is named for a geologist who founded the Geological Survey of Canada.

ANSWER: Mount **Logan** <Geography> <William Grossman>

18. This Biblical figure was imprisoned by Potiphar after Potiphar's wife falsely accused him of attempted rape. For 10 points each:

[10] Name this man of whom the Pharaoh took notice of after he interpreted a dream after seven fat and seven thin cows. He eventually became vizier of Egypt and imprisoned his brother Simeon.

ANSWER: **Joseph**

[10] This man, Joseph's father, gave the greater blessing to Joseph's younger son Ephraim, reminiscent of this man's purchase of Isaac's birthright from his older brother Esau. This man wrestled with an angel and was given the name Israel.

ANSWER: **Jacob**

[10] Ten of Joseph's brothers tricked Jacob into thinking Joseph was dead by showing him Joseph's bloodstained multi-colored coat, but Joseph's brothers had actually performed this action to him when some Midianite traders passed the well in which Joseph had been imprisoned.

ANSWER: **sold** him into **slavery** [prompt on partial answer] <Religion> <Jason Loy>/<ed. LW>

19. Two characters learn from a messenger boy that this character "won't come this evening, but surely tomorrow." For 10 points each:

[10] Name this character who Vladimir and Estragon wait for by a crossroads with a single dead tree, only to have him never appear.

ANSWER: **Godot**

[10] This slave and his master Pozzo encounter Vladimir and Estragon in Act 1 of *Waiting for Godot*. In Act 2, this character and Pozzo return, except Pozzo is blinded and on a leash and this character delivers a meaningless soliloquy.

ANSWER: **Lucky**

[10] *Waiting for Godot* is a work by this Irish absurdist playwright. Nagg and Nell live in trash cans in this author's play *Endgame*.

ANSWER: Samuel **Beckett** <British Literature> <Ganon Evans>/<ed. SB>

20. In a subtype of this reaction, called a disproportionation, one element has two different oxidation states in the product while it only has one oxidation state in the reactant. For 10 points each:

[10] Name this type of reaction in which electrons are transferred between chemical species. Half-reactions are used to balance this type of chemical reaction.

ANSWER: **redox** reaction [or **oxidation-reduction** reaction; prompt on partial answer]

[10] This equation can be used to determine the reaction quotient of a redox reaction from its cell potential given the conditions of the reaction. It's named for a German scientist.

ANSWER: **Nernst** equation

[10] A common type of redox reaction is the combustion reaction, in which a hydrocarbon is reacted with this gas to give water and carbon dioxide. This diatomic gas is breathed in by humans.

ANSWER: **oxygen** gas [or **O₂** gas, or diatomic **oxygen**] <Chemistry> <Jason Loy>/<ed. AK>