# 2020-2021 MOQBA Novice <br> Edited by Jacob O'Rourke, Sadie Britton, William Grossman, Aadi Karthik, Doug Simons, Conor Thompson and Luc Wetherbee <br> Written by the Editors, William Bordowitz, Stefan Calin, Vasa Clarke, Bo Chi, Ganon <br> Evans, Vishal Kanigicherla, Jason Loy, Lalit Maharjan, Arjun Nageswaran, Cooper Roh, Max Ryle and Max Shatan 

## Packet 4

## Tossups

1. Kinetic molecular theory states that particles of a theoretical type of this substance take up minimal space and are in constant random motion. This state of matter typically occupies the lower right portion of a phase diagram. A law that governs a type of these substances is modeled by the equation (*) PV = nRT and combines Gay-Lussac's, Charles', Avogadros's, and Boyle's laws; those substances are the "ideal" type of this phase. For 10 points, name this phase of matter whose particles move more freely than those of liquids or solids.
ANSWER: gases [or an ideal gas] <Chemistry> <Jason Loy>/<ed. AK>
2. This author wrote about Otoo's rescue of Charley after the shipwreck of the Petite Jeanne in "The Heathen." This author used Captain Alex MacLean as the basis of the protagonist of his novel The Sea Wolf, and in another of this author's short stories, a man dies of hypothermia (*) while hiking in the Yukon. One of his title characters kills Jim Hall after Hall tries to kill his master Weedon Scott. Hal and Mercedes mistreat the protagonist of another of his novels, after which John Thornton rescues Buck. For 10 points, name this author of "To Build a Fire," White Fang, and The Call of the Wild.
ANSWER: Jack London <American Literature> <Jason Loy>/<ed. SB>
3. In a section of this work, a group of people are said to "serve as its own grave-diggers" as a result of their exploitation of another group for a certain goal. This work contains ten "demands," including progressive income tax, that it proposes will end struggles between (*) different socioeconomic classes. This pamphlet opens by stating that "A spectre is haunting Europe" and, after promoting its title doctrine, ends with the phrase "Workers of the world unite!" For 10 points, name this 1848 pamphlet promoting its namesake anti-capitalist ideology, written by Friedrich Engels and Karl Marx.
ANSWER: The Communist Manifesto [or Manifesto of the Communist Party or Manifest der Kommunistischen Partei] <Philosophy> <William Grossman>
4. A location whose name means "cow's mouth" in this mountain system is the terminus of the Gangotri Glacier. The Siwalik Hills are also called the "outer" part of this mountain range. The hangul, the goat-like tahr, and the yak are animals indigenous to this region. The Sherpa, including
(*) Tenzing Norgay, serve as guides in this mountain range. Earth's tallest mountain above sea level sits in, for 10 points, what mountain range that is shared by India, China, Pakistan, Bhutan, and Nepal that contains Mount Everest?
ANSWER: Himalayas [or the Outer Himalayas] <Geography> <Jason Loy>/<ed. WG>
5. The royal official Imhotep was best known for constructing the first 'step' example of these structures. The construction of these structures ended after the Middle Kingdom, but inspired steep Nubian examples of these structures in Meroë. These buildings evolved out of earlier structures known as mastabas. The largest example of these structures was built for (*) Khufu and stands besides two other examples of these structures at Giza, where it was one of the Seven Wonders of the Ancient World. For 10 points, name these buildings that were used to bury Egyptian pharaohs. ANSWER: pyramids [accept Great Pyramid or any other answer referring to specific pyramids given] <Miscellaneous History> <Doug Simons>/<ed. DS>
6. A director from this country made Sympathy for Mr. Vengeance and Lady Vengeance as the first and last films in his Vengeance Trilogy. That filmmaker from this country also directed a film where a man uses a hammer to massacre a hallway full of assassins. That film, later remade by Spike Lee, is Oldboy. In a film from this country, a housekeeper's peach allergy is made to look like ${ }^{(*)}$ tuberculosis by the Kims, who one-by-one infiltrate the lives of the wealthy Park family. For 10 points, name this home country of the director of the 2019 Best Picture winner Parasite, Bong Joon-ho, and Park Chan-wook.
ANSWER: South Korea [or Republic of Korea; or ROK] <Other Fine Arts> <Max Shatan>/<ed. JO>
7. These people, who cannibalised a ship's crew in the Boyd massacre, built terraced hillforts known as pā. The Flagstaff War was begun by these people, whose raids on the Chatham Islands wiped out the Moriori tribe. These people's trade for European firearms names a conflict between its iwi, the Musket Wars. An intimidating war dance of these people, the (*) haka, is performed before rugby matches by the All Blacks. British sovereignty over these people was established in the Treaty of Waitangi. For 10 points, give these native people of New Zealand.
ANSWER: Māori [prompt on Polynesians or native New Zealanders] <World History> <Cooper Roh><ed. DS>
8. A six-parameter "standard model" for the universe is named for lambda and the "cold" type of this substance. This substance may be composed of axions, WIMPs, or MACHOs. Mass discrepancies in the Coma Cluster prompted Fritz Zwicky to theorize the existence of this substance. This substance, which does not interact with (*) electromagnetic radiation, is predicted to make up around $27 \%$ of the universe, less than dark energy but more than ordinary matter. For 10 points, name this theorized form of matter named for its elusive nature.
ANSWER: dark matter [do NOT accept or prompt on "dark energy"] <Astronomy> <Vishal Kanigicherla>/<ed. AK>
9. A character on this TV show named Jazz is frequently tossed out of a mansion. Another character on this show is a British butler quite literally named Geoffrey Butler. This show's main character "drinks orange juice out of a champagne glass" while flying first class. After a gang altercation while playing basketball, this show's "West $\left({ }^{*}\right)$ Philadelphia, born and raised" main character is sent to live with his uncle Phil and the rest of the Banks family. For 10 points, name this TV show featuring Will Smith in the title Los Angeles neighborhood.
ANSWER: The Fresh Prince of Bel-Air <Popular Culture> <Lalit Maharjan></ed. SB>
10. Forty-five "orphan stories," possibly passed on by Hanna Diyab, were added to this work by French translator Antoine Galland. In a story in this collection, the central sailor finds a valley of elephant-eating snakes by attaching himself to a (*) roc. In another story in this collection, Morgiana kills thirty-seven criminals after her master's brother Cassim is killed after he forgets to say Close Sesame. For 10 points, name this collection in which Scheherazade tells stories, including those of Sinbad, Ali Baba, and Aladdin to prevent her execution.
ANSWER: The Arabian Nights [or The Thousand and One Nights] <European/World Literature> <Jason Loy>/<ed. JO>
11. This artist's motif of a window on the left illuminating the painting appears in a painting in which a depiction of the Last Judgement hangs behind the Woman Holding a Balance. Klaas van Berkel theorized that this artist used his friend Antonie van Leeuwenhoek as the model for a painting in which the title Astronomer touches a globe. The "Mona Lisa of the (*) North" is a nickname for a painting by this artist in which a blonde woman in a turban models the title jewelry. For 10 points, name this Dutch painter of Girl with a Pearl Earring.
ANSWER: Johannes Vermeer <Visual Fine Arts> <Ganon Evans>/<ed. JO>
12. The issue of the spoils system divided this political party into factions called Stalwarts and Half Breeds until the passage of the Pendleton Civil Service Act by Chester Arthur, himself a member of this political party. John C. Fremont was this political party's first unsuccessful candidate for president. Thadasius Stevens and Benjamin Butler were members of a (*) "radical" group in this party who gained prominence during the presidency of Andrew Johnson. For 10 points, give this political party whose 19th century members included Ulysses Grant and Abrham Lincoln. ANSWER: Republican Party [or Radical Republicans] <American History> <Doug Simons>/<ed. DS>
13. The curl of this quantity is related to the negative time derivative of the magnetic field by the Maxwell-Faraday equation. Resistivity is equal to this quantity over the current density, and, in one dimension, this quantity is the negative derivative of the electric potential. It's not electric flux, but the area integral of this quantity is equal to enclosed $\left(^{(*)}\right.$ charge over vacuum permittivity, according to Gauss' law. Measured in volts per meter or newtons per coulomb, for 10 points, name this vector field equal to the force on a point charge divided by the charge, symbolized with an E .
ANSWER: electric field [prompt on E until read] <Physics> <Aadi Karthik>
14. According to the Matangalila, one of these animals was born from the eggshells from which Garuda hatched. A deity associated with these animals is commonly depicted riding a mouse and is the brother of the war deity Kartikeya. A white one of these animals is the mount of the god Indra. One of these animals was killed in a hunt after Shiva's decapitation of (*) Ganesha; the head of that animal was used to replace Ganesha's. For 10 points, name these large animals that include the manytusked Airavata.
ANSWER: elephant <Mythology> <Vishal Kanigicherla>/<ed. LW>
15. In a hallucination, this character laments "rancors in the vessels of my peace" upon seeing an unending line of kings. This character is told that only when Birnam Wood comes to Dunsinane he shall be defeated. A "heat oppressed brain" is blamed for a vision of a bloody dagger that this character beckons "come, let me clutch thee" shortly after murdering King (*) Duncan. This deliverer of the "tomorrow, tomorrow, tomorrow" soliloquy is slain by Macduff, thus proving a prophecy told to this character by three witches. For 10 points, name this tragic title character of Shakespeare's "Scottish Play."
ANSWER: Macbeth [do NOT accept or prompt on "Lady Macbeth"] <British Literature> <Ganon Evans>/<ed. SB>
16. Adjuvants, like aluminum salts, are sometimes included with these treatments to boost immune response to them. Thiomersal is a mercury-containing compound used as a preservative for these treatments, which can be either attenuated or inactivated. Andrew Wakefield promulgated the now-debunked theory that the (*) MMR type of these treatments caused autism. Jonas Salk created one of these treatments for polio. For 10 points, name these immunizations that build immunity by exposing patients to a weakened or dead virus.
ANSWER: vaccines [or types of vaccines, like polio vaccines or MMR vaccines] <Biology> <Vishal Kanigicherla>/<ed. AK>
17. This man composed a one act ballet that opens with a scene depicting youths carrying baskets of gifts to a sculpture of three Nymphs on the island of Lesbos. That ballet by this composer was choreographed by Michael Fokine and based on a work by the Greek writer Longus. This composer of Daphnis et Chloé and (*) Pavane for a Dead Princess was commissioned by Ida Rubinstein to write a one-movement orchestral piece that opens with a flute playing over a snare drum ostinato. For 10 points, name this French composer of Boléro.
ANSWER: Maurice Ravel [or Joseph-Maurice Ravel] <Auditory FA> <William Grossman>/<ed. JO>
18. Edgar Atheling and Malcolm III's opposition to the result of this military campaign led to the Harrying of the North. Harold Godwinson was exiled to Ireland following this conflict, which was prompted by the death of Edward the Confessor. This conflict, preceded by the battles of Fulford Gate and (*) Stamford Bridge, is chronicled on the Bayeux Tapestry. For 10 points, name this campaign that culminated in William the Conqueror's victory at the Battle of Hastings and the subsequent taking of London.
ANSWER: Norman conquest of England [or word forms and synonyms of "conquest," such as the Norman takeover of England] <European History> <Jason Loy>/<ed. DS>
19. This writer's letters to Abiah Root reveal an interest in biology, as did her poems "Arcturus is her other name" and "A Narrow Fellow in the Grass." This poet wrote about mourners that "creak across my soul / With those same boots of lead" in "I Felt a Funeral (*) in My Brain." This poet noted "how dreary" it is to "be Somebody" and told of a carriage rider who "kindly stopped for me."
Nicknamed the Belle of Amherst, for 10 points, name this reclusive poet of "I'm Nobody, Who Are You?" and "Because I Could Not Stop for Death."
ANSWER: Emily Dickinson <American Literature> <Jason Loy>/<ed. SB>
20. In Judaism, physical movements when performing this ritual include taking three steps back and then three steps forward at the beginning of the Amidah. It's not handling the Qur'an, but wudu is required before performing this activity. Muslims use a mihrab to determine the $\left(^{*}\right)$ direction in which they face during this activity, which they perform five times a day. Catholics use the rosary for this practice. For 10 points, name this religious activity in which one communicates with a deity.
ANSWER: prayer [or words forms, such as praying towards Mecca] <Religion> <Jason Loy>/<ed. LW>
Tiebreaker. The preacher Enoch Mudge was the model for this novel's Father Mapple, who delivers a sermon on Jonah. A character in this novel is a son of the king of Rokovoko whom the narrator meets at the Spouter Inn. This novel's narrator is rescued by the Rachel after holding onto (*) Queequeg's coffin when the title character destroyed the Pequod. For 10 points, name this novel narrated by Ishmael and written by Herman Melville, that details Captain Ahab's quest for the title white whale. ANSWER: Moby Dick <American Literature> <Jason Loy>/<ed. SB>

## Bonuses

1. After eating this food, a critic remarks "not everyone can become a great artist, but a great artist can come from anywhere." For 10 points each:
[10] Name this dish, which gives Anton Ego a flashback of his childhood in rural France. Remy and Linguini prepare this dish at Auguste Gusteau's Paris restaurant.
ANSWER: ratatouille
[10] Two hitmen in this movie discuss how a McDonald's Quarter Pounder is called a "royale with cheese." This Quentin Tarantino movie follows multiple characters as they encounter a briefcase with a golden light.
ANSWER: Pulp Fiction
[10] In a 2000 French film starring Johnny Depp, Vianche Rocher opens a shop selling this food in a small town. In another Johnny Depp movie, a river made of this confectionery flows through a factory.
ANSWER: chocolate [accept Le Chocolat; or Charlie and the Chocolate Factory; or Willy Wonka and the Chocolate Factory] <Popular Culture> <Ganon Evans>/<ed. SB>
2. Inspector Javert has a vendetta against this man, who was imprisoned for stealing a loaf of bread. For 10 points each:
[10] Name this protagonist of Les Miserables, who becomes the mayor of Montreuil-ser-mer after Bishop Myriel's kindness transforms him.
ANSWER: Jean Valjean [or Jean Valjean]
[10] This author created Jean Valjean in Les Miserables.
ANSWER: Victor Hugo
[10] Victor Hugo also wrote this novel in which Quasimodo, the title character, kills Frollo for allowing the gypsy Esmeralda's execution.
ANSWER: The Hunchback of Notre-Dame [or Notre-Dame de Paris] <European/World Literature> <Jason Loy>/<ed. JO>
3. Answer the following about the Lenski experiment. For 10 points each:
[10] The experiment used these bacteria, which were also used in the Meselson-Stahl experiment to prove semiconservative DNA replication. Jacob and Monod discovered the lac operon in these bacteria.
ANSWER: Escherichia coli
[10] During the Lenski experiment, some of the E. coli evolved to be able to consume citrate without the presence of this substance. Fermentation is an alternative to cellular respiration that does not require the presence of this substance.
ANSWER: oxygen gas
[10] The ability to consume citrate in the presence of oxygen likely resulted from one of these events in the rnk-citT module. These events are permanent changes in an organism's genome.
ANSWER: mutations <Biology> <Aadi Karthik>
4. This man won a Congressional primary election over Julian Bond after airing ads that insinuated that Bond had used cocaine. For 10 points each:
[10] Name this former Representative from Georgia who as head of SNCC ["snick"] helped organize the 1963 March on Washington. With Katherine Clarke, he led a Congressional sit-in to demand gun control legislation after the Pulse nightclub shooting.
ANSWER: John Lewis [or John Robert Lewis]
[10] The March on Washington was the setting of this civil rights leader's "I Have a Dream" speech. ANSWER: Martin Luther King, Jr. [or MLK]
[10] Along with Hosea Williams, John Lewis led marchers over the Edmund Pettus Bridge in this Alabama city in support of voting rights in 1965.
ANSWER: Selma <American History> <Jason Loy>/<ed. DS>
5. The apostle Peter performed this action on Tabitha, the most beloved woman in Joppa. For 10 points each:
[10] Name this action that Jesus performed on the centurion Jairus' daughter, the son of the widow of Nain, and on himself three days after the crucifixion.
ANSWER: raising the dead [or equivalents, such as bringing people back to life]
[10] Another person Jesus raised from the dead was this man from Bethany, a brother of Mary and Martha. Jesus' reaction to this man's death is recorded in the New Testament's shortest verse.
ANSWER: Lazarus
[10] Another man named Lazarus is contrasted with this kind of person in a parable in Luke 16. Jesus claims that it is easier for a "camel to pass through the eye of a needle" than for this kind of person to enter the kingdom of God.
ANSWER: the rich man <Religion> <Jason Loy>/<ed. LW>
6. Each song in P.D.Q Bach's Twelve Quite Heavenly Songs is named for one of these. For 10 points each:
[10] Name this group. George Crumb wrote "Twelve Fantasy Pieces After" this group, which includes "Music of Shadows - Libra" and "The Phantom Gondolier - Scorpio."
ANSWER: The Zodiac constellations [or "Twelve Fantasy Pieces After the Zodiac"]
[10] Crumb's "Twelve Fantasy Pieces After The Zodiac" is included in a collection called Makrokosmos, an allusion to Mikrokosmos by this Hungarian composer of The Miraculous Mandarin.
ANSWER: Bela Bartok
[10] Another Crumb piece written for the amplified piano is his Eine Kleine Mitternachtmusic, which is based on this man's "'Round Midnight." This jazz pianist is also known for "Straight, No Chaser."
ANSWER: Thelonious Monk [or Thelonious Sphere Monk] <Auditory FA> <Aadi Karthik>/<ed. WG>
7. Answer the following about forces. For 10 points each:
[10] This force opposes the motion of one surface relative to another. Tribology is the study of the effects of this force, the effects of which are reduced by lubricants.
ANSWER: friction
[10] The frictional force between two surfaces is proportional to the magnitude of this force, which acts perpendicular to a surface to counteract the force of gravity.
ANSWER: normal force
[10] Amontons' second law notes that the frictional force is independent of this quantity "of contact." This quantity can be measured in square meters, and for a rectangle, is equal to length times width.
ANSWER: area of contact [or contact area] <Physics> <Jason Loy>/<ed. AK>
8. A firm in this market situation has a Herfindahl index of 1.0. For 10 points each:
[10] Name this idealized model of an economic market in which only one seller controls the production of a given product.
ANSWER: monopoly
[10] Monopolies are sometimes compared to these associations of producers that cooperate to keep prices high. OPEC is a textbook example of one of these organizations in the oil market.
ANSWER: cartel
[10] This theoretical situation is the exact opposite of a monopoly. In this type of market, there are large numbers of producers and consumers, and every stakeholder has enough information to make rational decisions.
ANSWER: perfect competition <Social Science> <Jason Loy>/<ed. WG>
9. In a George Bernard Shaw play titled for this figure, Shakespeare meets Elizabeth I instead of who Shaw believed this figure was, Mary Fitton. For 10 points each:
[10] Name this figure, whose hair Shakespare compared to "black wires" and whose "eyes are nothing like the sun" in one poem.
ANSWER: The "Dark Lady" [prompt on answers indicating Shakespeare's mistress or lover] [10] The "Dark Lady" appears in numbers 127-154 of Shakespeare poems in this format. Another example of these fourteen line poems by Shakespeare begins "shall I compare thee to a summer's day?" ANSWER: Shakespearean sonnets
[10] This other English author developed his own sonnet style for his epic poem The Faerie Queene. ANSWER: Edmund Spenser <British Literature> <Ganon Evans>/<ed. SB>
10. It's not mining, but a family in this industry funded the election of Charles V as Holy Roman Emperor with the stolen crown jewels of Charles the Bold. For 10 points each:
[10] Name this industry dominated by the Fuggers in the Holy Roman Empire and in Britain by the Rothschilds.
ANSWER: banking [or synonyms like moneylending, brokerage, finance, or other equivalents, prompt on investing or usury]
[10] Cosimo the Elder of this banking family bribed his Albizzi executioner to change his sentence to banishment. This Florentine family dominated the city for three centuries.
ANSWER: the Medici family [or Cosimo de' Medici; or the Médicis]
[10] This country's "Golden Age" saw the first stock markets develop in its banking capital of
Amsterdam. During their "mania," tulips were used as a currency in this country.
ANSWER: United Provinces of the Netherlands [or Nederland, the United Provinces, Republic of the Seven United Netherlands, or the Dutch Republic, prompt on Holland or Dutch alone] <European History> <Ganon Evans>/<ed. DS>
11. A 1995 Francis Wood book argued this man did not go on his most famous journey. For 10 points each:
[10] Name this 13th century Italian merchant who wrote a well-known travelogue providing a detailed description of East Asia to medieval Europeans.
ANSWER: Marco Polo
[10] Polo wrote his memoirs while in a Genoese prison after trying to return to this city, his hometown.
This Italian city and "Most Serene Republic" was ruled by doges and dominated medieval European trade with the Middle East.
ANSWER: Venice
[10] Polo's travels allowed him to meet this grandson of Genghis Khan at his court in China. This ruler, the founder of the Yuan dynasty, launched two failed invasions of Japan.
ANSWER: Kublai Khan <Miscellaneous History> <Doug Simons>/<ed. DS>
12. This politician co-introduced the Green New Deal with Ed Markey. For 10 points each:
[10] Name this Democratic congresswoman, a member of "the Squad." This self-proclaimed socialist won office after an upset victory against Joe Crowley in the 2018 primary election.
ANSWER: Alexandria Ocasio-Cortez [or AOC]
[10] Ocasio-Cortez represents this state in Congress, whose other politicians include Chuck Schumer. This state is currently governed by Andrew Cuomo.
ANSWER: New York
[10] Ocasio-Cortez, like other progressive insurgents, was endorsed by a group named for Democrats and this adjective. This word is also the last name of the current governor of West Virginia.
ANSWER: justice [or Justice Democrats; or Jim Justice; or James Conley Justice II] <Current Events> <Arjun Nageswaran>/<ed. SB>
13. Answer the following about a famous 1900 list of then-unsolved problems in mathematics. For 10 points each:
[10] This mathematician compiled the list. He's also famous for a thought experiment involving a "grand hotel" that explains the bijections between different infinite sets.
ANSWER: David Hilbert
[10] Max Dehn solved Hilbert's fourth problem by showing that there exists one of these polyhedra that is not scissors-congruent to a regular tetrahedron. These regular polyhedra have six square sides.
ANSWER: cubes [prompt on regular hexahedra]
[10] Hilbert's 18th problem has to do with packing these 3-dimensional solids. The surface area of one of these solids with radius $r$ is four pi $r$ squared.
ANSWER: sphere [accept ball] <Math> <Aadi Karthik>/<ed. CT>
14. Answer the following about fiction set in New York City. For 10 points each:
[10] This author's novella Maggie: A Girl of the Streets follows a girl from the Bowery District forced into prositiution after her brother abandons her. He also wrote The Red Badge of Courage.
ANSWER: Stephen Crane
[10] This author set his novel Washington Square in New York City. This author of Portrait of a Lady and Daisy Miller was the brother of philosopher William, the author of Varieties of Religious Experience. ANSWER: Henry James
[10] James Baldwin wrote about John Grimes's crisis of faith and relationship with his stepfather Gabriel, the pastor of The Church of the Fire Baptized, in this semi-autobiographical novel which shares its name with a Christmas carol.
ANSWER: Go Tell It On the Mountain <American Literature> <Jason Loy>/<ed. SB>
15. Answer the following about unusual births in Greek mythology. For 10 points each:
[10] This god's epithet "twice-born" refers to the fact that he was born from Zeus's thigh after his mother Semele was killed.
ANSWER: Dionysus
[10] One myth states that this goddess of love was born fully grown from sea-foam when Cronus tossed Uranus' genitals into the sea near Cythera.
ANSWER: Aphrodite
[10] This twin sister of Clytemnestra was born from an egg after Zeus seduced Leda in the form of a swan. Paris' abduction of this wife of Menelaus, the most beautiful woman in the world, sparked the Trojan War.
ANSWER: Helen of Troy <Mythology> <Jason Loy>/<ed. LW>
16. Answer the following about extremely remote places. For 10 points each:
[10] After Tristan da Cunha, this Chilean island is the world's most remote inhabited island. Originally settled by its eponymous Rapa Nui people, tourists travel here to see its moai, giant stone heads.
ANSWER: Easter Island [or Isla de Pascua]
[10] This Norwegian-administrated archipelago is the world's northernmost permanently inhabited territory. A global seed vault is located here to protect against global agricultural catastrophe.
ANSWER: Svalbard [or the Svalbard Global Seed Vault]
[10] The only town in the contiguous United States that is inaccessible by road is Supai, located in this state. Mail to Supai is delivered by mule in the southwestern corner of the Grand Canyon in this state. ANSWER: Arizona <Geography> <Jason Loy>/<ed. WG>
17. A poet with this surname states "waste remembrance and forlorn surmise" in sonnet 36 of his House of Life series. For 10 points each:
[10] Give this surname of artist Dante Gabriel, who designed the cover for his sister Christina's poem in which Laura and Lizzie beckoned "come buy, come buy" by the title "Goblin Market."
ANSWER: Rossetti [accept Dante Gabriel Rossetti or Christina Rossetti]
[10] Goblin Market accompanied a poem which describes the "swarming, howling wretches" surrounding a "Round Tower" in this country. Adela accuses Dr. Aziz of rape in the Marabar Caves in a novel set in this country.
ANSWER: India [or Bharat]
[10] Dr. Aziz appears in A Passage to India, a novel by this British writer who also depicted Lucy's emancipation while in Florence in A Room with a View.
ANSWER: E. M. Forster [or Edward Morgan Forster] <British Literature> <Ganon Evans>/<ed. SB>
18. Din-i Ilahi was an unsuccessful syncretic religion founded by this ruler that was heavily influenced by Hinduism and Islam. For 10 points each:
[10] Name this ruler, whose court hosted the "Nine Jewels" and who abolished the jizya tax. Known as "the Great," he was overthrown by his son Jahangir.
ANSWER: Akbar the Great
[10] Akbar was a ruler of this Indian empire. This empire was established by Akbar's grandfather Babur and takes its name from Babur being a distant descendent of Genghis Khan.
ANSWER: Mughul Empire [or the Mughal Empire; or Mogul]
[10] A notable example of Mughul architecture is this white-domed mausoleum in Agra, built by Akbar's grandson Shah Jahan for his wife.
ANSWER: Taj Mahal [or Tadj Mahall] <World History> <Doug Simons><ed. DS>
19. The strength of these interactions lies between that of dipole-dipole forces and ionic bonds, and they are responsible for base pairing in DNA. For 10 points each:
[10] Name these intermolecular forces that typically occur between atoms of the namesake element and either fluorine, chlorine, or oxygen.
ANSWER: hydrogen bonds [or H-bonds; prompt on $\underline{H}$; prompt on bonds]
[10] The high degree of hydrogen bonding in this substance, called the "universal solvent," contributes to this substance's exceptional cohesion and adhesion. This substance has the chemical formula $\mathrm{H}_{2} \mathrm{O}$.
ANSWER: water
[10] Cohesion among water molecules is a contributing factor to this property of water, which allows small insects to "walk" on it.
ANSWER: surface tension <Chemistry> <Jason Loy>/<ed. AK>
20. NOTE TO MODERATOR: Accept, but do NOT reveal, alternate answers to bonus 1, as they will spoil the answer to bonus 2
Thirty-two hand painted versions of these objects in the "Manhattan Style" premiered alongside the Marilyn Diptych at an exhibition organized by Irving Blum. For 10 points each:
[10] Name these objects, which appeared with a red top and white bottom at the 1964 American Supermarket exhibition.
ANSWER: Campbell's soup cans [Prompt on partial answers; accept answers indicating a Campbell's soup product; or Warhol's Campbell's Soup Cans series]
[10] This artist painted and printed Campbell's Soup Cans at his New York studio dubbed The Factory.
This artist's "superstars" starred in his experimental movies such as Eat.
ANSWER: Andy Warhol [or Andrew Warhola]
[10] Andy Warhol hosted parties for this art movement called Exploding Plastic Inevitables. This movement focused on consumerism and includes Roy Lichtenstein's comic strip-inspired works.
ANSWER: Pop Art <Visual Fine Arts> <Ganon Evans>/<ed. JO>
