Spring Undergraduate Novice 2020

“Neo-Tournament Arrives from the Future”

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Packet 11

Tossups:

1. **A character created by this author proposes writing a "insect Iliad" to entertain his estranged daughter Junie. Letters to various historical and political figures are interspersed in a novel by this author. That novel's title character writes them to cope with the breakup of his second marriage to Madeleine, who runs off with his poet friend Valentine Gersbach. In another novel by this author, the title character goes (\*)** iguana hunting in Mexico with Thea Fenchel and is raised by his Machiavellian Grandma Lausch. That novel by this author of *Herzog* describes the title character as "an American, Chicago born." For 10 points, name this Jewish author of *The Adventures of Augie March*.
ANSWER: Saul **Bellow** <Karthikeyan, American Literature>

2. **This leader joked that a major stroke he suffered pushed the trial of serial killer John Christie off the front page. Having declared he would "not preside over a dismemberment" of his country's empire, this leader sent troops to crush an uprising led by the KLFA. This man was awarded the Nobel Prize for works including a four-volume history series spanning the** **(\*)** Gallic Wars to the second Boer (“**Burr**”) War. This man defeated Clement Atlee in a snap election. The development of Britain's first nuclear weapon was conducted under this prime minister, who had previously warned of Soviet influences in his "Iron Curtain" speech. For 10 points, name this man who served as prime minister from 1951 to 1955 and throughout World War II.
ANSWER: Winston **Churchill** <Maharjan, Other History>

3. **Astrocytes sometimes synthesize this molecule for storage in its namesake fuel reserve buffer. A kinase named for this compound complexes with APC and axin to phosphorylate beta-catenin. During this compound's synthesis, the Tyrosine-194 residue of a protein named for this compound serves as a primer for a polymerization reaction involving the successive addition and removal of uridine phosphates. Mutations in its (\*)** debranching enzymes can lead to the type III version of this molecule's namesake storage diseases. Glucagon promotes the breakdown of this polymer whose depletion results in marathon runners "hitting the wall." For 10 points, name this branched glucose polysaccharide primarily stored in muscles and in the liver.
ANSWER: **glycogen** <Puppala, Biology>

4. **The Dunkirkers were a group of Flemings and Walloons who were members of this profession during the Eighty Years' War. One member of this profession led a pioneering 1533 embassy to France that was followed by that man's successful conquest of Tunis the following year. Oruç (O-ruch) Reis founded a base for members of this profession on Djerba that was frequented by a brother of his whose nickname meant (\*)** "red beard". The Victual Brothers were members of this profession who often fought against the Hanseatic League. Barbary corsairs were members of this profession, as were the Dutch Sea Beggars. Hayreddin Barbarossa terrorized Mediterranean coastlines as a member of, for 10 points, what criminal maritime profession?
ANSWER: **piracy** [accept **privateer**ing, **pirate**; or **corsair**; prompt on sailor, mariner, or admiral]
<Sims, European History>

5. **A 2008 production of one of this composer's works begins with characters standing inside boxes forming the periodic table. One of this composer's operas was inspired by the letters during the California Gold Rush and was the third of this composer's works with a libretto by Peter Sellars. The libretto for an opera by this composer uses John Donne's "Batter my Heart," excerpts from the Bhagavad Gita, and reports from the (\*)** Trinity Test from Robert Oppenheimer. Another opera by this composer of *The Gospel According to the Other Mary* features a performance of *The Red Detachment of Women* after the president and his wife Pat arrive in the title nation. For 10 points, name this American composer of *Dr. Atomic* and *Nixon in China*.
ANSWER: John Coolidge **Adams** [do NOT accept "John Luther Adams"] <James, Other Auditory>

6. **Nicole Krauss's 2017 novel *Forest Dark* takes its title from Henry Wadsworth Longfellow's enigmatic translation of this poem's first lines. Each of the three major sections that comprise this poem ends with the word "stars" or "stellae."John Ciardi's English translation of this poem retains its *terza rima* stanza structure. The protagonist of this poem rides on the back of (\*)** Geryon before viewing centaurs shooting arrows at the Violent in this poem's first large section. In this poem's third part, the protagonist enters the Empyrean to view God after departing from his beloved Beatrice. Virgil serves as the guide through The Inferno, in the first section of, for 10 points, what poem by Dante?
ANSWER: ***The Divine Comedy***[accept***Divina Commedia***; anti-prompt on *Inferno* or *Paradiso* or *Paradise* or *Heaven*] <Harvey, European Literature>

7. **This is the number of Carbon atoms in beta-diketone that appears as a colorless or yellow liquid and is utilized in paints and varnishes. Commonly used in stimulants as well as in bronchodilators, the alkaloid xanthine has this many Carbons atoms. This is the number of Carbons in the aromatic ring of polystyrene as well as a molecule used in the manufacturing of synthetic resins and in (\*)** blowing agents. That compound containing this many Carbon atoms can come in envelope conformation, and in the chair conformation, this many Carbons are on the *same* plane. For 10 points, identify this number of Carbons in pentane.
ANSWER: **five** (**5**) <Bunker, Chemistry>

8. **A player for this school once jumped on the hood of a car and screamed "I am God!" before claiming he did that because of Lyme Disease. In August 2019, a former player at this school claimed he would DM opposing player's girlfriends before games. This school's Levonte Whitfield returned a 100 yard touchdown to clinch the last ever BCS National Championship over (\*)** Auburn. One former player for this school in that same year claimed he was "hooked up" with a serving of shoplifted crab legs. Both Jalen Ramsey and Jameis Winston played for this school, whose former coach has the most wins in NCAA college football history. For 10 points, Bobby Bowden coached at what ACC school located in Tallahassee?
ANSWER: **F**lorida **S**tate **U**niversity **Seminoles** [accept either school name or team name; accept **Florida State** alone; do NOT accept or prompt on "University of Florida"]
(The lead-in refers to Wyatt Sexton) <Foster, Trash>

9. **In his first major work, this thinker challenged the essentiality of the nuclear family and argued instead that horizontal marital ties were pivotal. This thinker criticized the work of Lucien Lévy-Bruhl by arguing that primitive modes of thought are not fundamentally different from civilized ways of thinking. In another book that opens "I hate traveling and explorers," this thinker documented groups such as the Bororo and the Tupi in (\*)** Brazil. This thinker used the linguistic developments of Saussure to analyze Amerindian myths in a work whose first volume is *The Raw and the Cooked*. For 10 points, identify this Belgian-French structural anthropologist who wrote *Tristes Tropiques* and *Mythologiques*.
ANSWER: Claude **Lévi-Strauss** (lead-in was from *Les Structures élémentaires de la parenté)*
<Bunker, Anthropology>

10. **A text named for this figure found in the Nag Hammadi Library consists of a list of numbered aphorisms, the first of which reads “whoever discovers the interpretation of these saying will not taste death.” According to one story, the Virgin Mary appeared to this person and dropped her girdle right before the Assumption. According to the Gospel of John, this person, called Didymus or "the** **(\*)** twin," told the other disciples that they were about to die with Jesus. This apostle, who took an apocryphal mission to India, is told "blessed are those who have not seen and yet have believed." For 10 points, name this apostle who refused to believe in Jesus’s resurrection until he felt Christ’s sides led him to be called “doubting.”
ANSWER: **Thomas** the Apostle [accept Doubting **Thomas**; accept The Gospel of **Thomas**; accept **Didymus** before mention] <Kirksey, Religion>

11. **In one scene in a play by this author, a character repeats historical facts about the Diadochi to a character who simply repeats "Madam" and "Lady" in response. That play by this author opens with two characters arguing over their respective wealth, with one threatening to have an engraving of the other that resembles Gamaliel Ratsey made. In another play by this author, the main character goes to visit (\*)** Celia while disguised as Scoto. The title character of a play by this author is a Venetian gentleman who pretends to have a terminal illness to trick Corbaccio, Corvino, and Voltore. For 10 points, name this Elizabethan playwright who wrote *The Alchemist* and *Volpone*.
ANSWER: Ben **Jonson** [or Benjamin **Jonson**] <Grossman, British Literature>

12. **A symphony by this composer begins with a slow introduction of (read slowly) three D's up to A, followed by three D's and down to A. This composer’s brother wrote the *Missa Hispanica* and had his 25th symphony misattributed as Mozart's 37th. This composer wrote a string quartet that contains a melody now used in the national anthem of (\*)** Germany. The Esterházy family employed this composer, for whom he wrote a symphony where the performers blew out their candles and left the stage to protest living conditions. For 10 points, the "Farewell" symphony is one of the 104 symphonies written by what Austrian “father of the symphony”?
ANSWER: Joseph **Haydn** <Dees/Sims, Music>

13. **Robert "King" Carter made his fortune from this commodity, while the Two Penny Act limited the amount an Anglican minister could make off of this commodity. A group of "lords" in 18th century Scotland made their fortunes importing this commodity from America through a "consignment" system. The immense manpower required to grow this crop led to the implementation of the headright system. A 1730 "Inspection Act" to regulate this crop was passed by the House of (\*)** Burgesses. Walter Raleigh was instrumental in popularizing this crop in England. Having precured seeds from a previous trip to Trinidad, John Rolfe became the first American colonist to grow this cash crop in the Virginia colony. For 10 points, name this crop used in cigars.
ANSWER: **tobacco** <Maharjan, American History>

14. **A parameter named after Mansouri and Sexl was used to test part of this theory in the Ives Stilwell experiment. In a phenomenon predicted by this theory, a proper value is multiplied by a factor equal to square root of 1 minus *v* squared divided b*y c* squared. The failure of the (\*)** Michelson-Morley experiment to detect luminiferous ether began research that led to this theory. This theory explains how two clocks can display different durations if they are moving at different relative speeds. This theory states that the laws of physics are identical in all inertial reference frames. For 10 points, length contraction and time dilation are directly a result of what theory of Albert Einstein which concerns objects moving at near-light speeds?
ANSWER: **special relativity** [prompt on relativity; prompt on length contraction or time dilation before mention by asking "what larger scientific theory is length contraction or time dilation part of?] <Madoerin, Physics>

15. **The Song of Grótti was adapted into a folktale used to attribute a central property of this entity to slave girls Fenja and Menja, while the *Poetic Edda* uses the phrase "Kolga's sisters" when describing it. The *Lokasenna* is set at a feast hosted by a god of this domain. The goddess Ran and her husband Aegir personify this place, and are the parents of the nine (\*)** "billow maidens" who reside there. Skadi married a god associated with this place after selecting him based on the beauty of his feet, thinking they belonged to Baldr. That Vanir god of this place is Njord. Before being killed by Thor, the Jormungandr, or World Serpent, resided in this place, which circled Midgard. For 10 points, name this aquatic location where the Kraken lives.
ANSWER: the **sea** [accept the world **ocean**; accept **salt water**; accept **waves**; prompt on water]
<Harvey, Mythology>

16. **This artist created a bronze relief of *The Feast of Herod* for the Baptismal font of the Siena Cathedral. The first depiction of clouds in Italian art is thought to be in a relief by this artist that appears on the pedestal of his sculpture of *Saint George* in a niche of the Orsanmichele. A sculpture of the prophet Habakkuk by this artist was nicknamed "Big Squash" for its bald head. This artist was inspired by the (\*)** equestrian statue of Marcus Aurelius for a bronze sculpture of a horse who lightly rests his front left hoof on a cannonball. Another sculpture by this artist shows the subject clutching a sword and resting his left foot on the head of Goliath. For 10 points, name this Florentine sculpture who created *Gattamelata* and a bronze David.
ANSWER: **Donatello** [accept **Donato** di Niccolò di Betto Bardi] <Harvey, Visual Arts>

17. **In a story from this collection, the protagonist sleeps in front of gates that lead to an apartment complex and narrates her life story while working as a stair sweeper. In another story from this collection, the title character is confined to the home of her cousin and engages in unconventional medical treatments such as standing on her head and drinking egg yolks in milk. This collection, which contains "A Real Durwan" and "The Treatment of Bibi Haldar" also contains a story in which Dev whispers the title word to Miranda at the Mapparium. That story is (\*)** "Sexy". This collection's title story follows Mr. and Mrs. Das as they visit India with the tour guide Mr. Kapasi. For 10 points, name this 1999 short story collection by Jhumpa Lahiri.
ANSWER: ***Interpreter of Maladies*** <Grossman, World/Other Literature>

18. **In one paper, a "materially adequate" definition for this property was formed which tries to ground it in infinitely many sentences of the form phi of *x* if and only if psi. In that 1933 paper, Alfred Tarski used object and meta languages to create a criteria for this property. This property fails to hold if there is no corresponding fact in (\*)** Russel's theory of this property. The liar's paradox produces sentences where a binary value for this property generates a contradiction. In logic, tables are used for propositions like "*p* not *q"* where *p* and *q* can vary in this property. For 10 points, name this logical property, which according to the principle of the excluded middle, is either possessed by a proposition or its negation.
ANSWER: **truth** [do NOT accept or prompt on "falsity"] <Bunker, Philosophy>

19. **Algorithms named "cocktail" and "comb" improve on one algorithm for this task which is slowed down by "turtles." One algorithm for this task divides elements into buckets based on their radix. A binary heap is used in an algorithm for this task that repeatedly pops off the (\*)** maximum element. Pivot values are designated in a fast algorithm for this task. A divide-and-conquer algorithm for this task recursive divides the set in half then merges the halves together. One algorithm for this task continuously swaps adjacent elements inside a bubble and has an average runtime of big O of *n* squared. For 10 points, name this task of arranging elements in a desired order.
ANSWER: **sort**ing [accept specific **sorting** algorithms such as merge **sort**, bubble **sort**, quick **sort**]
<Maharjan, Computer Science>

20. **In a prolonged siege that took place in this larger conflict, a leader obtained the support of British consul Frederick Bruce who helped enforce a naval blockade. Some veterans of this conflict later joined a group founded in Honolulu, Hawaii and was named to Revive the country it primarily took place. This conflict, whose primary perpetrator was composed of many** (\*) Hakka, largely ended after an unsuccessful coup during the Tianjin incident and the subsequent fall of Nanjing. Hong Xiuquan claimed he was Jesus's brother and led the God Worshiping Society, during, for 10 points, what Qing dynasty rebellion that lasted from 1850 to 1864?
ANSWER: **Taiping** Rebellion [also accept **Taiping** Civil War or **Taiping** Revolution] <Bunker, World History>

Bonuses:

1. This event was catalyzed by a plan to excavate phosphorite in one region. For 10 points each:
[10] Name this popular movement that opposed Soviet rule in the Baltic states by engaging in the namesake activity.
ANSWER: **Singing Revolution**
[10] As part of the Singing Revolution, residents of the Baltic States created an almost 700 kilometer-long one of these objects, in which participants hold hands in a line, to protest Soviet rule.
ANSWER: **human chain** [prompt on Baltic Way]
[10] The human chain formed during the Baltic Way commemorated the 50th anniversary of this agreement, named after two Soviet and German foreign ministers, that directly led to the loss of independence for the interwar Baltic republics.
ANSWER: **Molotov-Rippentrop** Pact [accept: **Ribbentrop-Molotov** Pact, **Nazi-Soviet** Pact, or **German-Soviet** Non-Aggresion Pact]
<Sims, European History>

2. This attraction is responsible for the relatively high boiling point of water which is represented by the unusual slope in water's phase diagram. For 10 points each:
[10] Name this intermolecular force exemplified by the attraction of complementary base pairs in DNA such as cytosine and guanine.
ANSWER: **hydrogen** bonding [accept **H-bond**]
[10] These weakest intermolecular forces are also known as the instantaneous dipole–exist between every chemical species. This Van der Waals force is caused by asymmetry in electron distribution.
ANSWER: **London dispersion** forces [or **LDF**]
[10] This equation can be used to estimate the attractive and repulsive forces between molecules. This equation relates the negative twelfth power for a radius of Pauli repulsion to a radius to the negative sixth power representing Van der Waals forces.
ANSWER: **Lennard-Jones** potential [or **L-J potential**; prompt on 12-6 potential or 6-12 potential]
<Madoerin, Chemistry>

3. Howard Zinn called an event in this state "perhaps the most violent struggle between corporate power and laboring men in American history." For 10 points each:
[10] Name this US state whose Coalfield War resulted in the 1914 Ludlow Massacre, where the National Guard killed at least 20 striking miners and their wives and children.
ANSWER: **Colorado**
[10] The strikes began when working conditions worsened after a member of this family purchased Colorado Fuel & Iron. This dynasty's patriarch established UChicago with money he made from founding Standard Oil.
ANSWER: **Rockefeller**
[10] This author wrote *King Coal* about the Ludlow Massacre. This man ran for Governor of California in 1934 under his End Poverty in California campaign, losing with 38 percent of the vote.
ANSWER: Upton **Sinclair** <Zhou, American History>

4. Rapid cycling is emblematic of this disorder in which patients may experience four or more episodes in a year that occurs more commonly in women with the type II version of this disorder. For 10 points each:
[10] Name this abnormal psychological condition previously known as “manic depression” in which patients periodically alternate between periods of elation and depression.
ANSWER: **bipolar** disorder [do NOT accept or prompt on “BPD” which actually stands for borderline personality disorder]
[10] Many people afflicted with bipolar also often suffer from this condition in which they experience a debilitating dependency on drugs or alcohol.
ANSWER: **addiction** [accept specific types of **addiction** such as **alcoholism** or **drug addiction** or **narcotic addiction**]
[10] In the dual diagnosis of this personality disorder with addiction, patients may turn to drugs or alcohol after they experience issues forming relationships. This personality disorder, found in the dramatic cluster, is typified by inappropriate attention-seeking behaviors.
ANSWER: **histrionic** personality disorder [or **HPD**] <Bunker, Psychology>

5. In her essay "Fish Cheeks," this author writes about her insecurities during a Christmas Eve dinner hosted by her Chinese American family and attended by a white American family. For 10 points each:
[10] Name this author of *The Kitchen God's Wife* and *The Bonesetter's Daughter* who also created the PBS series *Sagwa, the Chinese Siamese Cat*.
ANSWER: Amy **Tan**
[10] This novel by Amy Tan details the immigrant experiences of four mother-daughter pairs as they play mahjong in San Francisco.
ANSWER: *The* ***Joy Luck Club***
[10] This character in *The Joy Luck Club*, a chess prodigy and rival of Jing-mei Woo in her childhood, worries about her mother Lindo's acceptance of her fiancé Rich.
ANSWER: **Waverly** **Jong** [accept either part] <Zhou, American Literature>

6. Clive Wearing is affected by both retrograde and anterograde types of this condition which causes him to feel as though he is waking up from a comatose state every 20 seconds. For 10 points each:
[10] Name this disorder induced by hippocampal damage that usually either leads to a loss of or inability to form declarative memories.
ANSWER: **amnesia** [accept specific types such as retrograde **amnesia** or anterograde **amnesia**]
[10] Amnesia is associated with damage to the medial part of this lobe of the brain that contains the hippocampus. This lobe contains Wernicke's area and the primary auditory cortex-- both of which are central to language processing.
ANSWER: **temporal** lobe
[10] Amnesia is a side effect of Korsakoff Syndrome which can be caused by a deficiency in this B vitamin. Its pyrophosphate is a cofactor for the decarboxylation of pyruvate to acetaldehyde.
ANSWER: **Thiamine** [accept Vitamin **B1**; accept **TPP**] <Puppala, Biology>

7. The earliest play to feature this character was *The Trickster of Seville and the Stone Guest* by Spanish Golden Age dramatist Tirso de Molina. For 10 points each:
[10] Name this notorious womanizer who is dragged to hell by the statue of Don Gonzago as punishment for his sins. He is the subject of an opera by Mozart and an epic poem by Lord Byron.
ANSWER: Don **Juan** [or Don **Giovanni**]
[10] Don Juan appears in hell in an oft-cut act of *Man and Superman,* a play by this author who also wrote *Candida* and *Mrs. Warren's Profession*.
ANSWER: George Bernard **Shaw**
[10] This twentieth century playwright adapted Moliere's play about Don Juan. This man also adapted a 14th-century Chinese work into a play where Azdak declares Grusha is the true mother of Michael.
ANSWER: Bertolt **Brecht** [Eugen Berthold Friedrich **Brecht**] <Harvey, European Literature>

8. Landscape painter Charles-François Daubigny (“**Dough-binay**”) belonged to this school. For 10 points each:
[10] Name this 19th century school of realist painting, named for a French village near the Forest of Fontainebleau. Camille Corot's *Bridge at Narni* is a masterpiece of this school.
ANSWER: **Barbizon** school
[10] Today the best known of the Barbizon painters is this artist of *The Gleaners and The Angelus*, which shows a peasant couple praying.
ANSWER: Jean-François **Millet**
[10] This Spanish surrealist adored Millet and incorporated the couple from *The Angelus* in several of his paintings. He painted *The Persistence of Memory*.
ANSWER: Salvador **Dalí** [or Salvador Domingo Felipe Jacinto **Dalí** i Domènech, Marquis of Dalí de Púbol} <Harvey, Painting>

9. For 10 points each, answer the following about chess and the city of Berlin.
[10] This current chess world champion from Norway defended his title in Berlin in his 2018 match against Fabiano Caruana.
ANSWER: Magnus **Carlsen** [prompt on just his first name Magnus]
[10] “The Berlin” is a sideline of a chess opening partially named after this country. In the King’s pawn opening sometimes named for this country, Black follows White’s knight to F3 by moving his knight to C6 which is then attacked by White’s light square bishop.
ANSWER: **Spain** [accept obvious equivalents like **Spanish Opening** or **Spanish Game** or **España**] (alternative name of the opening is the “Ruy Lopez”)
[10] In the past, many people played chess at these establishments in Berlin where they could also get a coffee. Habermas emphasized the role of these places in London and Vienna during the Englighementment.
ANSWER: **cafes** [accept equivalents like **coffeehouses**] <Kirksey/Bunker, Other Academic>

10. For a generalized linear group such as GL(2,R) (**read: "G-L-2-R"**), this element is a matrix composed only of ones and zeros. For 10 points each:
[10] Identify these elements, often symbolized as an *e* or the number 1 in group theory which return *g* when the group operation is applied to this element and *g*.
ANSWER: **identity** element
[10] Along with the existence of an identity element, the existence of an inverse operation, the group axioms say the operation must satisfy this property. This property, which allows for parentheses, implies (**read slowly**) that quantity A times B times C is equal to A times quantity B times C.
ANSWER: **associativity**
[10] These groups can be generated from a single element such as 1 for the integers modulo some prime number *p*. In fact, every finite one of these groups is isomorphic to the integers modulo some *n* under addition.
ANSWER: **cyclic** group [or **monogenous** group from the Bourbaki fans in attendance; accept **finite cyclic group**, or **cyclic** subgroup, or infinite **cyclic** group or virtually **cyclic** group or locally **cyclic** group etc.]
<Bunker, Mathematics>

11. This denomination endured the "The Great Disappointment" and every Saturday since has been referred to as a "Minor Disappointment." For 10 points each;
[10] Nme this denomination which believes that God began the investigative judgement Christians in 1844, when Jesus entered the Most Holy Place of the Heavenly sanctuary. They're better known for worshipping on Saturdays.
ANSWER: **Seventh-day Adventist** Church
[10] After the Bible, this woman's prophecies are considered the holiest texts for Seventh-Day Adventists. This woman allegedly had two thousand prophetic visions and co-founded the denomination.
ANSWER: Ellen Gould **White**
[10] Seventh-day Adventists begin this religious sacrament by dividing the congregation by sex and performing a foot-washing ceremony. In Catholic tradition, a priest transubstantiates bread and wine before this sacrament.
ANSWER: **Communion** [or **Eucharist** or The **Lord's Supper**] <Kirksey, Religion>

12. This poem is set "Early in the morning / When the first cock crow'd his warning." For 10 points each:
[10] Name this poem in which the sisters Laura and Lizzie are beckoned by the title figures, who shout "come buy, come buy."
ANSWER: "**Goblin Market**"
[10] "Goblin Market" was written by this English author who said "Nor I half turn to go yet turning stay" in "Remember." She also wrote "In the Bleak Midwinter."
ANSWER: Christina **Rossetti** [or Christina Georgina **Rossetti**]
[10] :In the Bleak Midwinter" is a carol for this holiday. A novella titled for this holiday features characters such as Tiny Tim and Ebenezer Scrooge.
ANSWER: **Christmas** Day [accept ***A Christmas Carol***] <Grossman, British Literature>

13. In his most notable text, this philosopher mentioned that when fire and cotton are placed together, the cotton burns directly as a result of God. For 10 points each:
[10] Identify this philosopher who said that faith should be used over reason when discussing the matters of the divine in his *The Incoherence of the Philosophers*.
ANSWER: **Al-Ghazali** [also accept **Algazel**]
[10] Al-Ghazali himself was, along with thinkers such as Al Farabi, was one of the major thinkers associated with this religion. Al-Ghazali was also hugely influential in the theology of its Sunni branch.
ANSWER: **Islam** [accept logical equivalents like "he was a **Muslim**"]
[10] Al Ghezali claimed that philosophers such as Avicenna do not have any real knowledge of theology nor this branch of philosophy. A.J. Ayer and other logical positivists considered this branch of philosophy to be nonsensical.
ANSWER: **metaphysics** [do NOT prompt on “physics” or “natural science”] <Bunker, Philosophy>

14. A separatist movement in this province developed after the emergence of its social credit party which preached an ideology that economic and political power should be directly shared with the people. For 10 points each:
[10] Identify this Canadian province which still has an independence movement due to its extremely strong economy and how much of its trade is North and South with the United States.
ANSWER: **Alberta**
[10] Much of Alberta's economy now revolves around extracting this natural resource after rigs were set up in the Athabasca region.
ANSWER: **petroleum** [accept **oil** or **gasoline** or **natural gas**]
[10] The related Social Credit party lost federal general elections in the 1960s to this Liberal party politician. This Canadian Prime Minister and Nobel Peace Prize recipient refused to send Canadian troops into the Vietnam War.
ANSWER: Lester B. **Pearson** <Bunker, Other History>

15. In one novel by this author, Lionel and Cathy both die in prison, after which the protagonist moves in with a student she befriended during her father's trial. For 10 points each:
[10] Name this author who wrote about Rosa's experiences, including her exile in France, in *Burger's Daughter*.
ANSWER: Nadine **Gordimer**
[10] Gordimer hailed from this nation, which is also the birthplace of Zakes Mda and Andre Brink.
ANSWER: **South Africa**
[10] One of the most famous South African novels is this book by Alan Paton, which chronicles Stephen Kumalo's experience trying to save his son Absalom, who murdered Arthur Jarvis.
ANSWER: ***Cry, The Beloved Country*** <Grossman, World/Other Literature>

16. In classical mechanics, this quantity generates the time evolution. For 10 points each:
[10] Identify this quantity, that in *quantum* mechanics, is an operator which is equal to an operator corresponding to the kinetic energy plus a potential energy term.
ANSWER: **Hamiltonian**
[10] Hamilton's principle does not apply to these objects because they have finite degrees of freedom. An object is said to possess this property if the distance between any two sets of points is constant.
ANSWER: **rigid** bodies [accept word forms like **rigidity**]
[10] The Hamiltonian of the state vector psi is proportional to the time derivative of psi in this scientist's equation. This scientist's "cat" is commonly evoked in quantum thought experiments.
ANSWER: Erwin **Schrödinger** <Bunker, Physics>

17. After becoming prime minister at the age of only 33 under president Jean-Baptiste Ouédraogo, this leader was placed under house arrest by Francois Mitterand's son Jean-Christophe. For 10 points each:
[10] Identify this Marxist Pan-Africanist who was sometimes known as "Africa's Che Guevara."
ANSWER: Thomas **Sankara**
[10] While he was president of Burkina Faso, Sankara's government was the first in Africa to recognize the epidemic of this disease. In South Africa, denial about the cause of this lethal disease was widespread in the government of Thabo Mbeki.
ANSWER: **AIDS** [also accept **HIV**]
[10] Sankara fought in the Agacher Strip War against this West African country that evolved into the Christmas War in 1985. This country saw a Taureg insurgency in 2012 that led to the deployment of French armed forces.
ANSWER: Republic of **Mali** <Bunker, World History>

18. One singer in this group said "Been a bad girl, I know I am/And I'm so hot, I need a fan/I don't want a boy, I need a man" in their introduction to their debut single "BOOMBAYAH." For 10 points each:
[10] Identify this pop group whose song "Du-Du Du-Du" was released as the lead single for their EP *Square Up*.
ANSWER: **Blackpink** [accept **BLΛƆKPIИK** if this can be pronounced differently in English]
[10] The girls groups of Blackpink and and SNSD are the among the most popular musical acts in this Asian genre of pop music. In its home country, musicians who work in this genre are commonly portrayed as idols.
ANSWER: **K**orean**pop** [also accept **K**orean **wave**]
[10] This seven member kpop boy band has topped several US charts with albums titled *Love Yourself*. Called "The Princes of Pop" by *Time* magazine, this group worked with Steve Aoki on their song "Mic Drop."
ANSWER: **BTS** [accept **Bangtan** Sonyeondan] <Bunker, Trash>

19. For 10 points each, answer the following about composers who depicted light in their works.
[10] This contemporary German composer's seven-opera cycle titled *Licht, or Light*, includes a string quartet where the four members play on helicopters.
ANSWER: Karlheinz **Stockhausen**
[10] This Old Testament-based oratorio by Joseph Haydn, which begins with a "Representation of Chaos", includes a sudden C major chord on the word "light".
ANSWER: *The* ***Creation*** *[accept: Die* ***Schöpfung***]
[10] This Norwegian composer's first *Peer Gynt Suite* includes a "Morning Mood" along with the oft-excerpted *In the Hall of the Mountain King*.
ANSWER: Edvard **Grieg** <Sims, Music>

20. Titus Tatius led his men in opposing this events, which was promulgated by a group led by Romulus. For 10 points each:
[10] Name this event which involved the Romans abducted en masse from a neighboring people to provide wives to the influx of men in Rome's early days.
ANSWER: **rape** of the **Sabine women** [or **abduction** of the **Sabine women**, accept clear equivalents indicating **Sabine women** are **taken**]
[10] The Sabines retaliated and nearly succeeded in taking Rome when this woman betrayed the Romans and flung the gates open for the Sabines to enter. She was crushed to death by the shields of the angry Romans near her namesake rock.
ANSWER: **Tarpeia** [accept the **Tarpeian** Rock]
[10] Tarpeia was the daughter of Spurius Tarpeius, the governor of the Capitoline one of these land features. The city of Rome contained seven of these physical features, with names like Aventine and Palatine.
ANSWER: **hill** [accept Aventine, Palatine, or Capitoline **hill**; accept the Seven **Hills** of Rome]
<Maharjan, Mythology>