Scobol Solo 2019
Packet 5 (Round 5)

1. Leading up to an important holiday in this religion, there is a non-stop reading of their holy book that lasts about 48 hours, a practice called "Akhand Path". When members of this religion greet each other, they sometimes say a phrase meaning "Shout Aloud in Ecstasy; True is the Great Timeless One." That phrase is "bole [BOH-lay] so nihal; sat sri akal." Many adherents of this religion do not cut their hair, and to symbolize equality, women wear a chunni [CHUH-nee] and men wear a turban. Name this religion started in the Punjab region of India by Guru Nanak.

   Answer: Sikhism

2. The membranes of this organelle contain GBF1, which is inhibited by Brefeldin A, a substance that comes from toxic fungi. Proteins are taken to this organelle by the COPII ["cope two"] protein. Proteins in this organelle sometimes receive the mannose-6 phosphate [man-ohss "six" FAHSS-fayt] tag. In fungus hyphae ["hi-fee"], this organelle transports vesicles to the spitzenkörper [shpits-en-kor-pur]. This organelle has folds called cisternae [siss-TUR-nee], and its ends are the *cis* [siss] and *trans* faces. Name this organelle that packages proteins taken from the endoplasmic reticulum to vesicles.

   Answer: Golgi ["GOAL-jee"] apparatus or Golgi complex or Golgi body

3. When some characters in this novel walk to a bus stop, they notice some characters that have a grudge against one of them lounging against a tobacconist's window. Later in this novel, they notice the same characters in blue dungarees, leading to a fight in which Masson knocks one of them down and Raymond gets stabbed in the arm and mouth. Raymond later gives his revolver to this novel's protagonist, who shoots the man wielding the knife five times. That man who dies is referred to in this novel as "the Arab". Name this novel about Meursault [mur-sol], written by Albert Camus [ka-moo].

   Answer: *The Stranger* [or *L'Étranger* or *The Outsider*]

4. Paul Hindemith's sonatina for two flutes is named for this type of music. There are many music types that J. S. Bach combined fugues with; he combined them with this type of music in *The Musical Offering*, including one of the "crab" subtype and a *per tonos* example, which rises endlessly. The best-known composition of this type was originally written in the late 17th century in D major for three violins and a basso continuo [pause] and is paired with a gigue [zheeg]. This type of composition has a leader and followers, and it is equivalent to a round when the leader and follower are identical. Name this type of composition, one of which is a work often performed at weddings that was written by Johann Pachelbel [YO-hahn PAHK-ul-bell].

   Answer: canon(s) [accept canonic or kanonische]

5. In 1959 in this country, Tom Mboya [um-BOY-ah] started the African Airlifts program to send people to study in U.S. universities. The second president of this country, who closed its universities for six months starting in 1982 to control rebellions, and eventually allowed multi-party elections in 1991, was Daniel arap Moi. Moi, who is one of this country's Kalenjin people, was often opposed by the Luo and was put in power by Kikuyu [kih-KOO-yoo] power brokers. Name this country that gained independence shortly after its Mau Mau Uprising and whose first president was Jomo Kenyatta.

Answer: (Republic of) <u>Kenya</u> [or (Jamhuri ya) <u>Kenya</u>]

6. This adjective describes properties that are used to calculate the constants a and b in the Van der Waals equation. The ratio of an existing pressure or temperature to the pressure or temperature described by this adjective is the reduced pressure or temperature. This adjective describes the point at the end of the liquid-gas phase boundary on a phase diagram, while the prefix "super-" is added to this adjective to describe the fluid that exists at higher temperatures and pressures. Give this adjective that in the context of calculus describes a point on a graph where the derivative is either undefined or zero.

Answer: <u>critical</u>

7. In 2019, the capital of this state elected Steven Reed to be its first African-American mayor. The current governor of this state, who received radiation treatment for lung cancer in 2019, is Kay Ivey. Probably the most vulnerable Democratic U.S. senator in 2020 is Doug Jones, who began representing this state after winning a 2017 special election against Roy Moore. President Trump incorrectly claimed this state was threatened by Hurricane Dorian. Name this state next to Georgia whose capital is Montgomery.

Answer: <u>Alabama</u>

8. In one play by this writer, Justice Clement says "Horns in the mind are worse than on the head." In that play, this writer wrote about Clement acquitting Brainworm, who is the servant of Kno'well, a man who tries to spy on his son. A character in another play by this writer states "To be a fool born is a disease incurable." That statement is made by one of this writer's title characters, who pretends that he is dying and eventually fakes his death to trick people who wish to be his heirs. In that play, the characters names are Italian words for animals, and the title character's name means "fox". Name this English playwright of *Every Man in His Humour* and *Volpone* [vohl-POH-nay].

Answer: Ben <u>Jonson</u>

9. One message sent during this war read "Our good luck is gone; Mindarus [MIN-dah-russ] is dead; the men are starving, and we know not what to do." During this war, Brasidas [BRAH-see-dahss] died just after learning that he had won the Battle of Amphipolis [am-FIP-oh-liss], during which his enemy Cleon [KLEE-ahn] also died. This war was interrupted for several years by the Peace of Nicias [NISH-ee-uss], which was never strong and was ended by the Sicilian Expedition supported by Alcibiades [al-sih-BY-uh-deez]. This war ended soon after Lysander was successful at Aegospotami [ee-guh-"SPOT-uh-my"]. Identify this war named for the league that opposed the Delian League and was led Sparta.

Answer: <u>Peloponnesian</u> War

10. This substance is combined with acetic [uh-SEE-tik] and iso·butyr·ic ["ice-oh"-byoo-TEER-ik] acids to form a common emulsifier. Robert Stämpfli developed the "gap" named for this substance, which is used to record the membrane activities of nerve cells. The concentration of this substance is measured in degrees Brix. This compound is broken down into simpler constituents by invert·ase ["invert-ace"]. This compound is the most abundant compound in phloem ["FLOW-um"] sap. This compound collects in the stalks of sugarcane and gives sugarcane its name. Name this di·saccharide ["die-SACK-uh-ride"] formed by combining glucose and fructose [pause] and commonly called "table sugar".

Answer: <u>sucrose</u> [accept <u>saccharose</u>; prompt on table <u>sugar</u>]

11. Confucius said that youth should develop "friendship of" this concept, and Aristotle said that the best friendship is "friendship of" this concept. According to Aristotle, the highest human form of this concept is eudaemonia [yoo-dee-MOH-nee-uh]. The prefix of that word is commonly translated as this concept. According to Plato's *Republic*, the idea of this concept is the highest knowledge. Friedrich Nietzsche [NEETS-shuh] argued that philosophers should reject traditional moral notions in a book whose title states we should move *Beyond* [this concept] *and Evil*. Name this concept that applies to things which are beneficial and morally correct, in contrast to bad things.

Answer: (the) <u>good</u>

12. The bottom left section of a painting by this artist depicts the poet Sappho holding a rolled paper that says "Sappho". That painting depicts the muses and several other real poets surrounding Apollo and is titled *The Parnassus*. That work is across from a lunette by this artist depicting Prudence, Temperance, and Faith, entitled *Cardinal and Theological Virtues*. Another work by this artist shows Plato and Aristotle surrounded by several important Greek thinkers. All of those works are frescoes in the *Stanza della segnatura* [STAHN-zah del-lah sen-yah-TOO-rah], a room this artist decorated in the Vatican. Name this painter of *The School of Athens*.

Answer: <u>Raphael</u> [or <u>Raffaello</u> or Raffaello <u>Sanzio</u> da Urbino]

13. One of the Presidential Succession Acts was signed by this U.S. president shortly after the death of Vice President Thomas Hendrick. This president established Labor Day in September in order to make sure that it would not be celebrated on May 1. After this president's attorney general, Richard Olney, was unable to stop the Pullman Strike with writs of injunction, this president ordered troops to control the strikers. The Mugwumps supported this Democrat, helping him win election over James G. Blaine. Name this U.S. president who was both succeeded and preceded in office by Benjamin Harrison, since he served two non-consecutive terms.

Answer: (Stephen) Grover <u>Cleveland</u>

14. In linear algebra, this adjective describes a set of vectors that has a nontrivial linear combination that adds to zero. That set of vectors cannot be a basis even if the number of vectors equals the dimension of the vector space. In probability, this adjective describes a set of events if the probability of all events occurring does not equal the product of the probabilities of each event separately. In algebra, this adjective describes a system of linear equations that has infinitely many solutions. Give this adjective that also describes a "variable" that is the output of a function.

Answer: <u>dependent</u> [do not accept or prompt on "independent"]

15. This poet wrote "The many faults that well you know I have, let be interred in my oblivious grave." That poem, in which this writer later states "Look to my little babes, my dear remains", is called "Before the Birth of One of Her Children". Another poem by this writer ends "Then while we live, in love let's so persevere, that when we live no more, we may live ever." Yet another poem by this writer, which ends "My hope and treasure lies above", is based on an event that took place on July 10, 1666. Name this American poet who wrote "To My Dear and Loving Husband" and "Verses upon the Burning of our House".

Answer: Anne (<u>Dudley</u>) <u>Bradstreet</u> [accept either underlined name]

16. There is a state park named for this mountain in Iowa on the Wisconsin border even though, like all mountains, this mountain is not in Iowa. This U.S. mountain is the site of an International Hill Climb called "the Race to the Clouds". A gold rush took place in 1859 around this mountain. This mountain inspired Katharine Lee Bates to write the song "America the Beautiful". It is the easternmost fourteener in the U.S., located between Cripple Creek and Colorado Springs. Identify this mountain that was called "El Capitan" until it was renamed for an explorer who tried to climb it in 1806.

Answer: <u>Pikes Peak</u>

17. An attempt by thousands of workers to bring a petition to this leader was led by Father Georgy Gapon [gee-OR-gee GAH-pohn] and resulted in over a hundred deaths when guards shot at the crowd. To quell outrage over that event, this leader wrote the October Manifesto and created a legislature called the Duma. A little over a decade later, this leader abdicated and was replaced by Georgy Lvov [gee-OR-gee luh-VOHV], who was then replaced by Alexander Kerensky. This ruler's only son had hemophilia [hee-moh-FEE-lee-uh], which may have caused this leader's wife to support the spiritualist adviser Grigori Rasputin. Name this leader who was killed by the Bolsheviks in 1918 and was the last Russian tsar.

Answer: Nicholas II [or Nikolai II Aleksandrovich; prompt on Nicholas or Nikolai]

18. One constant named after this person equals elementary charge times h-bar divided by twice the mass of an electron. That quantity named after this person is used as a unit of magnetic moment and approximately equals the magnetic moment of an electron. Another constant named after this person gives the most likely distance between the electron and the nucleus in a hydrogen atom. This person had several respectful debates with Albert Einstein over the nature of quantum mechanics. Identify this Danish scientist who is the namesake of a "magneton" ["magnet-on"] and who used round electron orbits in his model of the hydrogen atom.

Answer: Niels Bohr [accept Bohr magneton or Bohr model]

19. During the 2017 Broadway revival of this musical, the non-English lyrics during the wedding ceremony were revised to make them more authentic. Near the end of this musical's first act, the female lead sings "No one can stop what I must do; I swear I'll give my life for you." At the end of this musical, the Engineer introduces Tam to his father. This musical can be viewed as an update to the Giacomo Puccini [JAH-koh-moh poot-CHEE-nee] opera *Madame Butterfly*. Some large-scale productions of this musical use a helicopter. Name this musical about the love between Kim and Chris at the end of the Vietnam War.

Answer: *Miss Saigon*

20. In one novel by this author, the narrator claims that when he was young, brave girls in his neighborhood would say "Come back, come back, Levov of my life." Those words are addressed to Seymour "Swede" Levov in this author's book set at a high school reunion. A novella by this author describes the tension felt by Neil Klugman when he falls in love with a Jewish person who is more assimilated than he is. Another novel by this author is set during a psychoanalytic session with Dr. Spielvogel and became controversial because it describes masturbation. Name this author of *American Pastoral*; *Goodbye, Columbus*; and *Portnoy's Complaint*.

Answer: Philip (Milton) Roth

This is the end of regulation. Check the score. If it is tied, proceed to overtime tossups. If it is not tied, the game is over.

TB21. This artist showed four arrows going into a standing, nearly naked body [pause] in *St. Sebastian at the Column*. This artist's *The Martyrdom of Saint John* is the first of 15 works in his *Apocalypse with Pictures* series. He made two similar series on the Passion and one titled *Life of the Virgin*. Another work by this artist shows a seated woman resting her head on one hand and holding a compass in the other. Another work by this artist shows a goat-headed devil riding on horseback next to a man in armor. Name this German engraver and woodcutter who made *Melancolia I* and *Knight, Death, and the Devil*.

Answer: Albrecht <u>Dürer</u> [AHL-brekt DUR-ur]

If the score is still tied, continue. If it is not tied, the game is over.

TB22. Kaguya-hime [kuh-GOO-yuh HEE-may] is from this location, and she returns to it at the end of the Japanese story *The Tale of the Bamboo Cutter*. This is the location where Mannie O'Kelly-Davis befriends the HOLMES IV computer in a Robert Heinlein novel in which this place is a penal colony. Members of the Baltimore Gun Club are joined by the Frenchman Michel Ardan in an expensive attempt to reach this location that inspired a film by Georges Méliès [zhorzh mel-yess]. That attempt to reach this place using a cannon is described in Jules Verne's novel *From the Earth to* this place. Name this location that, according to John Heywood, is made of green cheese.

Answer: the <u>Moon</u> [accept <u>Luna</u>] (The Robert Heinlein novel is *The Moon Is a Harsh Mistress*.)

If the score is still tied, continue. If it is not tied, the game is over.

TB23. This type of building is in the title of a Charles Bukowski novel, and a Eudora Welty short story explains *Why I Live at* one of these buildings. Some of these buildings have the motto "Neither snow nor rain nor heat nor gloom of night stays these couriers from the swift completion of their appointed rounds" written on them. Name these buildings where people can buy stamps and send mail.

Answer: (general) <u>post office</u>s [prompt on <u>PO</u>]

There are no more overtime questions available. If the score is still tied, contact the control room for further instructions. If it is not tied, the game is over.