

# Scobol Solo 2020

## Packet 8 (Round 8)



1. One character in this novel says of another “He’s so dumb he doesn’t know he’s alive.” That statement refers to a person who runs an auto shop in a region that this novel’s narrator describes as a “valley of ashes”. In this novel, the shop owner’s wife, Myrtle, has an affair in Manhattan before being run over by a car. When George Wilson finds out that his wife is dead, he mistakenly confronts this novel’s title character in West Egg on Long Island. Name this novel narrated by Nick Carraway and written by F. Scott Fitzgerald.

Answer: *The Great Gatsby*

2. The Dresser Formation in Australia contains rock named for these features that may contain the world’s oldest known evidence of life on land. These features are classified as cones if their location includes a mound of silica. The existence of these objects in Nevada was strongly decreased by a geothermal power plant. Many of these objects are located at El Tatio [TAH-tee-oh] in Chile or at a valley named for them on the Kamchatka Peninsula. These bodies exist where water and magma come together. Name these hot springs that shoot off steam and water, such as Yellowstone National Park’s Old Faithful.

Answer: geysers

3. In China, there are several buildings of this type for women called *nusi* [NOO-see], particularly in the city of Zhengzhou [chayng-CHOW]. A collection of buildings with one of these buildings at its center is called a külliye [KOOL-yeh]; one example is the neighborhood around a famous “Blue” one of these buildings. In each of these buildings, one of the walls is considered the *qibla* [KEEB-lah], which is indicated by a semi-circular niche next to a raised platform. The platform in this type of building is called the *minbar*, and the niche is called the *mihrab*. The niche helps people in this building face Mecca. Name these Muslim houses of worship.

Answer: mosques [or masjid or jami; prompt on houses of worship or similar descriptive answers]

4. After this person wrote “C Jam Blues”, lyrics were added to it and the song was named after him. That song is the first one on this person’s collaboration with Louis Armstrong titled *The Great Summit*. This musician worked with Ella Fitzgerald on an album containing his songs “Cotton Tail” and “It Don’t Mean a Thing (If It Ain’t Got That Swing)”. This performer’s signature song was about riding to Harlem and was written by Billy Strayhorn. Name this orchestra leader and pianist who performed “Take the ‘A’ Train” and whose nickname was based on the fact that he acted like a nobleman.

Answer: (Edward Kennedy) “Duke” Ellington

5. The first European to lead what is now this country was British Royal Navy officer William Hobson. Much of what is now this country was controlled by Hongi Hika [HAWNG-ee HEE-kuh] in the early 19th century by trading for European guns and using them to fight native populations in the Musket Wars. England gained control of the northern half of this country in 1840 by the Treaty of Waitangi [wy-TAHNG-ee]. This country was originally inhabited by the Maori [MAO-ree] people. Name this country that consists mainly of a North Island and a South Island, and whose capital is Wellington.

Answer: New Zealand [or Aotearoa]

***Check the score.***

6. When this quantity is present in two objects, the magnetic force between them equals vacuum permeability times length times the product of two values of this quantity, all over  $2\pi$  times the distance between the objects. Kirchhoff's [KEER-kawff's] first law deals with charge or this quantity coming into and out of a junction, stating that the total must balance out. The power dissipated by a circuit element equals voltage times this quantity. Ohm's law states that the voltage drop across a resistor equals this quantity times resistance. Name this measure of flow of charge, typically measured in amperes.

Answer: electric current

7. Bertrand Russell said that philosophers assume that this concept is a fundamental axiom to science, but the word for this concept never occurs in advanced sciences. There are material, formal, efficient, and final types of this concept according to Aristotle. David Hume [hyoom] stated that this concept is often assumed when two phenomena are constantly conjoined, but this concept should only be used to describe a phenomenon that precedes another and has a necessary connection to the other one. Statisticians contrast this concept with correlation. Give this term used to describe a phenomenon that brings about another phenomenon.

Answer: causes or causation or causality [accept cause and effect]

8. In one of the examples of this person being a character in his own stories, he tells shipbuilders that if the Earth takes a third gulp of the seas, then they will all be out of work. In another story by this writer, the protagonist tries to get rich quick by killing his bird, but the inside of his bird does not have what he is looking for. Another story by this writer teaches the lesson that "The race is not always to the swift" by depicting a fast animal that sleeps until it is too late to pass the slower animal. Name this writer of "The Goose That Laid the Golden Eggs" and "The Hare and the Tortoise", who wrote fables in ancient Greece.

Answer: Aesop

9. This color is used in an alternative title for the painting *Number 11, 1952* because that painting has many nearly vertical lines that are this color. That painting is by Jackson Pollock. Franz Marc painted a horse that was this color and belonged to a movement named for a Wassily Kandinsky painting that shows a person wearing this color while riding a horse. Another painter was fascinated with this color before his Rose Period, as can be seen in the paintings *Woman with Folded Arms* and *The Old Guitarist*. That artist is Pablo Picasso. Name this color that is a primary color of pigments along with red and yellow.

Answer: blue [accept Blaue; accept blue poles or blue rider or blaue reiter]

10. A few years before Jimmy Carter ran for president, his mother volunteered for this organization, which now has an award named for her. A few years before this organization began, its creation was heavily supported by United Auto Workers President Walter Reuther [ROO-thur] and U.S. Senator Hubert Humphrey. The first director of this organization, who was the brother-in-law of the U.S. president who started it, was Sargent Shriver. The VISTA program was created as a domestic counterpart to this program. Name this U.S. government program started by John F. Kennedy that sends volunteers to developing countries.

Answer: Peace Corps

**Check the score.**

11. The name of this state of matter is also used for two other states of matter, consisting of non-interacting fermions [FUR-mee-ahnz] or bosons [BOH-zahnz]. When plasma undergoes re-combination, it becomes this state of matter. Molecules only affect each other when they have elastic collisions, according to the kinetic theory of this state of matter. Several elements that are di-atomic at standard temperature and pressure are also in this state at standard temperature and pressure. The naturally occurring elements in the rightmost column of the periodic table are in this state at standard temperature and pressure. Sublimation is the conversion of a solid directly to this state of matter. Name this state of matter that a liquid turns into when it boils.

Answer: gas(es) [or gaseous state]

12. The protagonist of this novel writes a diary that begins “Last night to the flicks. All war films.” In this novel, that diary is purchased at an antique shop owned by Mr. Charrington. This novel’s protagonist eventually rents a room above that shop, where he has an affair with Julia. Part of this novel takes place in Room 101, where prisoners’ worst fears are used to torture them. In this novel, Mr. Charrington works for O’Brien and the Thought Police. This novel’s protagonist, who works for the Ministry of Truth, is Winston Smith. Name this novel set in a society run by a mysterious “Big Brother”, written by George Orwell.

Answer: *Nineteen Eighty-Four* (: *A Novel*)

13. This U.S. state's 9th district's congressional representative was Tom Graves, who resigned in 2020 and will be replaced by QAnon adherent Marjorie Taylor Greene. Until July 2020, this state's congressional delegation also included civil rights hero John Lewis. This state passed an election law in 2019 following a heated gubernatorial election between Brian Kemp and Stacey Abrams, the latter of whom lost but then led voter-registration efforts that helped lead to this state voting for Joe Biden in the 2020 election. Name this state where Raphael Warnock and Jon Ossoff are in run-off elections trying to unseat Kelly Loeffler [LAWFF-lur] and David Perdue as U.S. senators.

Answer: Georgia

14. The combined forces of the U.S. and U.K. defeated this country at the Battle of 73 Easting, and the next day the U.S. defeated this country at the Battle of Medina [muh-DEE-nuh] Ridge. At the same time, allied forces attacked retreating troops from this country in a scene called "the Highway of Death". Those attacks on this country were orchestrated by Norman Schwarzkopf [SHWARTS-kawpf]. In a later war, a U.S.-led coalition overthrew this country's Ba'ath Party government after accusing it of building weapons of mass destruction. Name this country where both presidents named George Bush started wars, the second of which overthrew Saddam Hussein.

Answer: (Republic of) Iraq

15. This organ is supported by its namesake "broad ligament". The walls of this organ have three layers, the outermost of which is the peri-me-trium. This organ shrinks briefly during a process called "Braxton Hicks", and a more significant tightening of this organ is caused by the release of oxy-to-cin ["ox"-ee-TOH-sin]. The inner layer of this organ is the endo-metrium, which gets thick during the luteal [LOO-tee-ull] phase of the menstrual cycle. This organ is removed in a hysterectomy [hiss-tur-EK-toh-mee]. Name this organ, located at the end of the Fallopian tubes, that holds the embryo and fetus during pregnancy.

Answer: uterus [prompt on womb by asking for the medical term]

**Check the score.**

16. A five-part composition by this person has parts titled *La Paix* [pay] and *La Réjouissance* [rezh-wee-sawnss]; those titles represent the rejoicing that comes from the end of a war. This composer wrote that piece as part of a celebration at the end of the War of the Austrian Succession in London. Another work by this composer was written for a concert on the Thames River for King George I. Those compositions are *Music for the Royal Fireworks* and *Water Music*. Another work by this composer was first performed in April but is usually performed in December for Christmas. Name this composer who included the "Hallelujah" chorus in his *Messiah*.

Answer: George Frideric Handel ["handle"] [or Georg Friedrich Händel [gay-ork free-drik HAHN-dull]]

17. Viedma [vee-AYD-mauh] Lake is in the southwest part of this country, while Mar Chiquita Lake and the salt flat Salinas Grandes [GRAHN-dayss] are in the northern part. The life of Manuel Belgrano is commemorated at the National Flag Memorial in this country's city of Rosario. The president of this country lives in the Casa Rosada, or Pink House. The second-most populous city in this country, which contains the Jesuit Block and is named after a city in Spain, is Córdoba. This country is south of Bolivia, Paraguay, and Uruguay, and it has a long border with Chile. Name this South American country whose capital is Buenos Aires.

Answer: (República) Argentina [or Argentine Republic]

18. When C. L. Wrenn updated a John R. Clark Hall translation of this poem, an introduction describing the act of translating this poem was written by J. R. R. Tolkien. Seamus Heaney's translation of this poem is subtitled *A New Verse Translation*. Some of this poem takes place in an underwater cave, where a giant sword is found and eventually melts except for the hilt. Before it melts, that sword is used in this poem to kill a monster and decapitate her son. The hero of this poem becomes king of the Geats after helping Hrothgar [RAWTH-gar], the king of the Danes. Name this Old English epic poem in which the title character kills Grendel.

Answer: *Beowulf*

19. Dr. Roderigo Lopez said that he loved this person as well as he loved Jesus Christ just before he was executed for supposedly trying to assassinate this person. This leader was initially a supporter of Robert Devereux [DEV-er-oh], 2nd Earl of Essex, but that changed when Essex fought poorly in the Nine Years' War and led Essex's Rebellion. The Rising of the North was an attempt to put this leader's first cousin once removed—Mary, Queen of Scots—on the throne. This leader succeeded Bloody Mary, who was her half-sister. Name this Queen of England from 1558 to 1603 who was nicknamed “the Virgin Queen”.

Answer: Elizabeth I [prompt on Elizabeth]

20. These mathematical things can be classified as Hermitian [air-MEE-shen] if they equal their own conjugate transpose. The Cayley-Hamilton theorem says that these things are solutions to their own characteristic polynomials, which can be solved to find their eigenvalues [“EYE-gun-values”]. Gauss-Jordan elimination is used to put these things into reduced row echelon form. Cramer's rule is a way to solve systems of equations using these things and their determinants. These things are multiplied by combining the rows of one with the columns of another. Name these rectangular arrangements of numbers.

Answer: (square) matrix or matrices

***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.***

<sup>TB</sup>21. The second stanza of a poem by this writer describes “grains of the golden sand”, asking “Can I not grasp them with a tighter clasp?”. At the end of that poem, this writer asks “Is all that we see or seem but a dream within a dream?”. In another poem, this writer stated of a deceased woman “But we loved with a love that was more than love.” This writer began that poem “It was many and many a year ago, in a kingdom by the sea.” Another poem by this writer begins “Once upon a midnight dreary, while I pondered, weak and weary” and is about a bird that says “Nevermore”. Name this American author of “Annabel Lee” and “The Raven”.

Answer: Edgar Allan Poe (The first poem mentioned is “A Dream within a Dream”.)

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

<sup>TB</sup>22. One concerto for this instrument has a very difficult original version that was recorded with Leonidas Kavakos performing. That concerto for this instrument has been called a “polonaise for polar bears”, and it was the only concerto written by Jean [zhahn] Sibelius. Johannes Brahms’ *Études for Piano* are variations on a piece originally written for this instrument—namely, a caprice [kah-preess] by Niccolò Paganini, who was a great performer on this instrument. Name this string instrument, usually played by an orchestra concertmaster, that is higher in pitch than a viola.

Answer: violin

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

<sup>TB</sup>23. During this month in 1981, Sandra Day O’Connor became the first female U.S. Supreme Court justice. National Suicide Prevention Week takes place during this month. During this month in 1787, the U.S. Constitution was signed. During this month in 1939, Germany invaded Poland, starting World War II. During this month in 2001, the World Trade Center was destroyed. Labor Day is celebrated during this month. Name this ninth month of the year.

Answer: September

***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.***