

# Scobol Solo 2021

## Packet 4 (Round 4)

1. Near the beginning of a short story by this writer, the title character tells his wife “Say thy prayers, dear Faith, and go to bed at dusk, and no harm will come to thee.” In that short story by this author, the title character walks into a forest where the character and his wife are in a ceremony in which a voice shouts “Bring forth the converts!”. This author of “Young Goodman Brown” wrote a novel about a woman who has an affair with Reverend Arthur Dimmesdale, and he named that novel after a punishment worn by that character, Hester Prynne. Name this author who wrote about Puritan New England in *The Scarlet Letter*.

Answer: Nathaniel Hawthorne

2. This disease can be caused by the fungus *P. jirovecii* [*jeer-oh-VEK-ee-“eye”*], though it is more commonly caused by a type of *Streptococcus* bacteria. Other than urinary tract infections, this disease is the most common hospital-acquired infection. Legionnaires’ disease is a form of this disease. A type of myco-plasma can cause the so-called “walking” type of this disease. People above the age of 65 are supposed to get vaccinated for this disease. This disease is common in people who have both acute respiratory distress syndrome and COVID-19. Name this infection of the air sacs in the lungs.

Answer: pneumonia

3. One piece of this type of music is Joaquín Rodrigo’s piece for guitar inspired by the palace gardens at Aranjuez [*ar-ahn-WEZ*]. Ludwig Beethoven’s fifth piano piece of this type is nicknamed “Emperor”. Paul Hindemith and Béla Bartók challenged the notion of this type of piece by writing these pieces “for orchestra”. J. S. Bach wrote a collection of six of these pieces named for the margrave of Brandenburg. Name this common type of musical piece usually written for a soloist accompanied by an orchestra.

Answer: concertos [or concerti]

4. This god sent the monster Cetus [*SEE-tus*] to attack Troy because the king of Troy refused to pay this god and Apollo for building the walls of Troy. This god is considered to be the father of Chrysaor [*CRY-say-or*] and Pegasus, who came from Medusa’s neck long after this god raped her. This god lost a competition against Athena when the city of Athens preferred her olive tree to this god’s saltwater spring. This brother of Hades and Zeus is often pictured carrying a trident. Name this Greek god of the sea who was equivalent to the Roman god Neptune.

Answer: Poseidon [prompt on Neptune before the end]

5. In one novel by this author, Captain Nicholl makes several bets with Impey Barbicane over the creation of a cannon that is constructed by the Baltimore Gun Club. This author's character Michel Ardan joins them in being launched by that cannon. Another novel by this author is based on a bet made while the protagonist plays whist against Thomas Flanagan and Andrew Stuart at the Reform Club. That bet leads to a journey by Jean Passepartout [pass-par-too] and Phileas Fogg. Name this French author who wrote *From the Earth to the Moon* and *Around the World in Eighty Days*.

Answer: Jules (Gabriel) Verne [zhool vairn]

**Check the score.**

6. Several treaties between the U.S. and Native Americans were nicknamed for this time period, including the Chickasaw and Choctaw Treaty of Washington. A series of laws named for this time period led to the jailing of William McCardle, who appealed to the Supreme Court using the Habeas Corpus Act. Those laws named for this time period created five military districts within the United States. This time period ended with a compromise that stopped congress-people from fighting for Samuel Tilden to become president. The 13th through 15th Amendments are collectively nicknamed for this period. Name this era that followed the Civil War.

Answer: Reconstruction Era or Reconstruction Period

7. As part of a contest that this painting won, it was purchased by the Art Institute of Chicago for 300 dollars in 1930. One of the people in this painting was the subject of *Portrait of Nan* the next year. This painting was inspired by a house with a fancy window in Iowa, and that window can be seen in the background of this painting. The painter of this work chose his sister and his dentist to model for it, and they are supposed to represent a farmer and his grown daughter. Name this painting in which the man holds a pitchfork, created by Grant Wood.

Answer: American Gothic

8. The ability of a substance to perform this process can be calculated by the Ruth equation, which finds average specific resistance. The depth type of this process takes longer to get stopped by the buildup of cake than the surface type. In the body, this process is performed by the fenestrated endothelium, the glomerular [gloh-MAIR-yoo-lur] basement membrane, and the podocytes [POH-doh-"sites"] in the Bowman's capsule. Outside the body, this process often uses a semi-permeable barrier such as special paper. Name this purification process which works by allowing some material to pass through while other material is blocked.

Answer: filtration or filtering [accept answers that additionally mention blood; prompt on separation or purifying or purification]

9. In 2018 campaign ads, this politician told his young children to “Build the wall” and say “Make America Great Again”. In that race, this person defeated Andrew Gillum. Shortly after winning, this person held a press conference to support medical marijuana with Democratic donor John Morgan and Republican congressperson Matt Gaetz [“gates”]. More recently, this person signed a bill preventing cruise ships from requiring COVID vaccinations, and he tried to prevent school mask mandates in Palm Beach and Miami-Dade Counties. Name this governor of Florida.

Answer: Ron(alld Dion) DeSantis

10. There were four battles in this war called the Battle of the Hook, but the last one is sometimes named for Samichon [SAM-uh-chon] River. In this war, there was intense fighting for Hill 983, Hill 940, and Hill 773 in the Battle of Bloody Ridge, which was followed by the Battle of Heartbreak Ridge. In this war, the United Nations supported Syngman Rhee’s [SEENG-man ree’z] government, which looked like it was going to gain territory after the Battle of Inchon. During this war, General Douglas MacArthur was removed from his command by President Truman. Name this war from 1950 to 1953, at the end of which a Demilitarized Zone was created to divide an Asian peninsula.

Answer: Korean War

***Check the score.***

11. In a poem about one of these animals, Emily Dickinson says that neither she nor the animal is to blame for its death. In that poem, this animal moaned for drink as it was dying. Rudyard Kipling wrote a poem about one of these animals that asks “What of the hunting, hunter bold?”. In *The Jungle Book*, that poem is followed by Mowgli killing one of these animals named Shere Khan. In another poem, one of these animals is asked “What immortal hand or eye, could frame thy fearful symmetry [SIM-ih-try]?”. Name this type of animal that is “burning bright, in the forests of the night” in a William Blake poem.

Answer: tigers

12. If two points are selected on this curve, then the difference between the slopes of the lines drawn from any other point on this shape to the two fixed points is constant. A mirror in the shape of this two-dimensional curve will reflect every ray parallel to the axis of symmetry to a fixed point. Every point on this shape is the same distance from its focus as from its directrix because this conic section has an eccentricity equal to 1. The technique of completing the square can find the vertex of this shape. Name this shape generated by quadratic functions such as  $y = x^2$  [“y equals x squared”].

Answer: parabola

13. Bronislaw Malinowski wrote an essay on a scientific theory of this concept, and he defined this concept as “a well-organized unity divided into two fundamental aspects—a body of artifacts and a system of customs”. E. B. Tylor defined this concept as a collection of entities that are “acquired by man as a member of society”. Recently in the U.S. many differences between liberals and conservatives over race and gender have been described as a “war” of this concept. Name this concept whose “high” type includes fine arts and whose “pop” type includes popular entertainment like movies and television.

Answer: culture(s)

14. This monarch mediated an agreement between the House of Lords and House of Commons that ended the Church of Ireland’s status as a state organization. This monarch’s trust of Lord Melbourne and distrust of Robert Peel led to the Bedchamber Crisis, which postponed Peel’s rise to becoming prime minister. This monarch generally preferred Benjamin Disraeli over William Gladstone when they were rivals to become prime minister. Before Elizabeth II, this person was the longest-reigning monarch in British history. Name this queen who ruled England for most of the 19th century.

Answer: Queen Victoria

15. One man in this novel shoots a young goat and a parrot, causing a man he is with to talk to the gun. When they use the goat kid to make a broth in this novel, the two men disagree about whether the broth should have salt. When they roast the goat kid, one of the men in this novel says that he will never eat man’s flesh any more. Much of this novel takes place near the mouth of the Orinoco River after a shipwreck. The title character of this novel teaches English and Christianity to a man he names Friday. Name this novel by Daniel Defoe about a man who spends many years on an island.

Answer: (*The Life and Strange Surprising Adventures of*) Robinson Crusoe (*of York, Mariner*)

**Check the score.**

16. Surface tension is measured by dividing half of this quantity by length, and electric field strength is measured by dividing this quantity by charge. This vector quantity equals the opposite of the gradient of potential energy. The integral of this quantity with respect to time equals impulse, while the integral of this quantity dotted with distance equals work. If mass is constant, then Newton’s second law states that mass times acceleration equals the net amount of this quantity. Name this quantity measured in newtons.

Answer: force [accept more specific answers]

17. This city's Western Addition was organized following the Van Ness Ordinance and includes the diverse Fillmore District. What used to be known as this city's Outside Lands are now its Richmond and Sunset Districts. The Castro District contains this city's GLBT Historical Society Museum, and during the 1960s counter-culture was centered around this city's Haight-Ashbury District. This city is northwest of Palo Alto and San Jose and west of Oakland. Name this California city near Alcatraz Island that is connected to Marin [muh-RIN] County by the Golden Gate Bridge.

Answer: San Francisco, California

18. A song by this person contains the lyrics "The blues ain't nothin' like a pain in your heart, when you get a bad start, when you and your man have to part." The name of that song was used as the title of this person's autobiography, which was made into a movie starring Diana Ross. This person also popularized a song that was written by Abel Meeropol and contains the line "Blood on the leaves and blood at the root". Name this jazz singer who was born with the name Eleanora Fagan and who recorded the songs "Lady Sings the Blues" and "Strange Fruit".

Answer: Billie Holiday [accept Eleanora Fagan before "Eleanora"]

19. Twenty months after a failed attack against this leader, he released the prisoners he had taken in exchange for 53 million dollars worth of baby food and medicine. Operation Mongoose was another attempt to remove this leader. This person came to power after leading a revolution that overthrew Fulgencio Batista [fool-HEN-see-oh bah-TEESS-tah]. An agreement between this leader and the Soviet Union's Nikita Khrushchev to build missile launch facilities led to a very tense 13 days during the Cold War. This person was the main target of the Bay of Pigs Invasion of 1961. Name this person who from 1959 to 2011 was a leader of Cuba.

Answer: Fidel Castro (Ruz) [prompt on Castro]

20. One of these organisms is *Claviceps purpurea*, which is responsible for a disease sometimes called St. Anthony's Fire and is an example of an ergot [UR-gaht]. The bio-luminescence exhibited by the *Panellus* [puh-NEL-luss] and *Omphalotus* [ahm-FAL-uh-tuss] genres of these organisms is called fox-fire. These organisms have a mycelium ["my"-SEE-lee-um] that absorbs nutrients that have been decomposed by these organisms' hyphae ["HI-fee"]. Unlike plants, these organisms have chitin ["KITE-in"] in their cell walls. Name this kingdom that includes yeasts, molds, and mushrooms.

Answer: fungus or fungi [accept ergots before "ergot"]

***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. Ernst Volckheim taught how to use this weapon at the Kama [KAH-muh] school that was run by Germany but was outside of Germany. His students developed the panzer divisions that relied on this weapon. Many of these weapons were named by the British after U.S. general William Tecumseh Sherman, and Americans have named many of these weapons after Creighton Abrams. Between the world wars, many cavalry troop units were trained to use these devices instead of horses. Name these important parts of 20th- and 21st-century warfare that typically use tracks rather than wheels.

Answer: tanks [prompt on armored vehicles; accept panzers before “panzer”]

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

<sup>TB</sup>22. Animals in this class have thick retinas but no retinal blood vessels, so their eyes have a comb-like structure that creates a blood-retina barrier and is called a “pecten oculi”. Like many dinosaurs, many animals in this class exhibit post-cranial pneumaticity [noo-muh-TISS-ih-tee], meaning many of their bones have air sacs. This class is the most advanced class with a crop allowing for food storage before digestion, and it uses previously swallowed stones for digestion in its pro-ventriculus [“pro”-ven-TRIK-yoo-lus] and gizzard. Name this class of vertebrates, members of which have feathers and can often fly.

Answer: birds [or Aves]

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

<sup>TB</sup>23. The lowercase versions of this letter and ‘j’ are often written using a tittle. In lowercase, this letter represents a unit vector in the direction of the  $x$ -axis. The uppercase version of this letter represents a quantity equal to the sum of mass times the distance from rotational axis squared for all the parts of an object, which is a type of moment. This letter also represents electric current. This letter represents a number that, when squared, gives  $-1$ . This letter is the chemical symbol for iodine. Name this letter that is between ‘H’ and ‘J’.

Answer: i

(A tittle is the dot over a lowercase ‘i’ or ‘j’. The formula in the second sentence is moment of inertia.)

*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.*