

# Scobol Solo 2018

## Packet 14 (Round 14)



1. To prevent the creation of dams, this U.S. state's Buffalo River was declared the first National River in 1972. This state is not Louisiana, but it is the source of the largest bayou in the world, Bayou Bartholomew, which starts near Pine Bluff. The population of the northwest part of this state has grown recently due to the expansion of Tyson Foods in Springdale and Walmart in Bentonville. The town of Fort Smith is in this state on the border with Oklahoma. Name this state north of Louisiana and south of Missouri, whose capital and most populous city is Little Rock.

Answer: Arkansas

2. This author wrote a novella in which a Spaniard spends two years with a gypsy family after falling in love with Preciosa [preh-see-OH-suh]. That story, *The Little Gypsy Girl*, is the first of this author's *Exemplary Novels*. In a subplot of a novel by this author, Ana Félix arranges for her family, including her father Ricote [ree-KOH-tay], to return to their native country. That novel's main plot involves the donkey Dapple and the horse Rocinante [roh-see-NAHN-tay], and its protagonist at first spends all his time reading books of chivalry. Name this 17th-century Spanish author who wrote about a man who thinks he's a knight in *Don Quixote*.

Answer: Miguel de Cervantes (Saavedra)

3. The Planck value for this quantity equals the square root of the quantity  $\hbar$  ["h-bar"] times big  $G$  over the speed of light cubed. The reciprocal of this quantity is used to measure the attenuation [uh-TEN-yoo-AY-shun] coefficient of an object struck by light or the optical power of a lens. Young's modulus is multiplied by a ratio of two values of this quantity to equal force divided by cross-sectional area. The period of a pendulum varies directly with the square root of this property of the pendulum. According to special relativity, this value contracts at high speeds. Name this value that is multiplied by width and height to calculate the volume of a rectangular prism.

Answer: length or distance [do not accept "displacement"]

4. The Louisville draft board refused to give this person conscientious objector status, and he was convicted for violating Selective Service laws in Houston. In 1971, the Supreme Court reversed this person's conviction. This person said "We are not supposed to take part in no wars unless declared by Allah or The Messenger." This person wrote the autobiographies *The Soul of a Butterfly* and *The Greatest: My Own Story*. There is some debate as to whether this person's Parkinson's syndrome was caused by repeated head trauma. Name this athlete who fought Sonny Liston and Joe Frazier in the boxing ring.

Answer: Muhammad Ali [or Cassius (Marcellus) Clay (Jr.)]

5. This artist created an artwork consisting of a pair of peepholes on a wooden door that reveal a nude woman holding a gas lamp, entitled *Êtant donnés* [ay-tahn doh-neh]. A set of nine “malic molds” are placed next to a chocolate grinder in a piece by this artist created on two panes of glass covered in spider cracks. This artist wrote elaborate notes to go with his *The Bride Stripped Bare by Her Bachelors, Even*, and he put a mustache on a postcard of the *Mona Lisa*, which he called *L.H.O.O.Q.* [el-ahsh-oh-oh-koo]. He is known for his sculptures made entirely from found objects, which he called “readymades”. Name this Dadaist who turned over a urinal and called it *Fountain*.  
Answer: (Henri-Robert-)Marcel Duchamp [doo-shawm]

**Check the score.**

6. This person made an analogy to the stock market by describing a “beauty contest” in which the goal was to choose the most popular photographs. In another thought experiment, this thinker proposed paying people to bury and dig up jars of money as a solution to unemployment. In one book, this person attacked the unfairness of German war reparations, and he later argued that deficit spending can alleviate depressions. Name this British economist who wrote *The Economic Consequences of the Peace* and *The General Theory of Employment, Interest, and Money*.  
Answer: John Maynard Keynes [“canes”]

7. A National Reserve in Amarillo, Texas holds 35% of the world’s supply of this element. It is not nitrogen, but the largest use of this element is in cryogenics, especially the cooling of magnets in MRI scanners. A gain medium containing 15% neon and 85% this element is used in the most common type of red laser. A Roman numeral II designates a form of this element that displays super-fluidity. An alpha particle is the nucleus an atom of this element. It is named for having been discovered in the spectrum of the Sun. Name this element whose atomic number is 2.  
Answer: helium [or He]

8. After climbing a ladder followed by two soldiers, this leader was badly injured in Multan when an arrow pierced his lung. That incident during the Mallian Campaign ended after Perdiccas [pur-DIK-uss] removed the arrow from this person. Had this person died, Hephaestion [heh-FES-tee-on] likely would have replaced him on the Indian campaign, in which this leader beat King Porus at the Battle of the Hydaspes [“hide-ASS-pees”]. Earlier, this leader was victorious at Issus [ISS-uss] and Gaugamela [gaw-guh-MEL-uh]. Name this son of Philip II who, during the fourth century BCE, led Macedon.  
Answer: Alexander the Great [or Alexander III of Macedon or Aléxandros ho Mégas; prompt on Alexander]

9. The narrator of this novel says “I cherish the greatest respect towards everybody’s religious obligations, never mind how comical” when referring to another character’s observance of Ramadan. Earlier in this novel, the narrator briefly sees a sermon on the blackness of darkness when he enters a Negro church. This novel’s narrator then finds the Spouter Inn while waiting for a ferry from New Bedford to Nantucket. In this novel, the term “Parsee” is used to refer to Fedallah, who has the same job as the Muslim Queequeg. Name this novel about the obsessive quest by Captain Ahab to kill the title whale.

Answer: Moby-Dick; or, The Whale

10. A piece in this genre has a movement titled “Ingemisco” [in-guh-MIS-koh] that has become a tenor standard. Another piece in this genre uses four offstage brass ensembles at the corners of the stage. Gabriel Fauré’s [faw-reh’z] piece in this genre replaces one of its typical movements with a “Pie Jesu” [PEE-ay YAY-soo] movement. Trumpet calls open the “Tuba Mirum” movement of Verdi’s piece in this genre. Franz Sussmayr finished a piece in this genre that was left unfinished when Mozart died. Pieces in this genre typically have movements titled “Lacrimosa” and “Dies Irae.” Name this genre of masses for the dead.

Answer: requiem mass or requiems [prompt on mass for the dead]

**Check the score.**

11. During warmer months on this planet, steep slopes like Mount Sharp exhibit seasonal flows called recurring slope lineae [LIN-ee-“eye”]. The Ma’adim Vallis [mah-ah-DEEM VAL-iss] channel on this planet leads to the Gusev [GOO-seff] crater. This planet’s Hellas Planitia [HEL-uss pluh-NISH-uh] is an impact crater over 2,000 kilometers in diameter. In 2018, scientists released evidence for the existence of a lake about a mile below this planet’s south pole. The surface of this planet has been explored by *Spirit*, *Opportunity*, and *Curiosity*, which are all rovers. Name this planet whose surface contains a lot of iron oxide, inspiring its nickname, the “red planet”.

Answer: Mars

12. In this country, the anti-immigrant “Rivers of Blood” speech was given by Enoch Powell. Another politician in this country got the nickname “milk-snatcher” after cutting free milk for school children in this country. That strong ally of Ronald Reagan led this country between James Callaghan and John Major, and held office during this country’s victory over Argentina in the Falklands War. Name this country whose two female prime ministers have been Margaret Thatcher and Theresa May.

Answer: United Kingdom of Great Britain and Northern Ireland or U.K. [accept any underlined portion; accept England before “Argentina”]

13. This author is primarily known as a poet, but wrote a play in which the chorus complains about the spread of bad news with the line “For evil news rides post, while good news baits.” Another line from that play provided the title for Aldous Huxley’s *Eyeless in Gaza*. This poet wrote the line “The childhood shows the man, as morning shows the day” in a poem about Jesus that was published along with that play. This author wrote that poem as the sequel to a much longer poem that tells “Of Man’s first disobedience”. Name this 17th-century English writer of *Samson Agonistes*, *Paradise Regained*, and *Paradise Lost*.

Answer: John Milton

14. The Lonely Whale led a successful campaign against these objects in Seattle in 2018. With encouragement from Shedd Aquarium, the Chicago White Sox became the first major sports team to stop using these objects at home games. Recent laws against these objects were inspired in part by a viral video of a sea turtle. Many businesses are switching from plastic to biodegradable materials for these objects, and some restaurants are only giving these objects out on request. Starbucks has agreed to end its use of plastic versions of these objects by 2020. Name these objects that have been the target of the “stop sucking” campaign.

Answer: (single-use) (plastic) straws

15. Adding the hyperbolic cosine of  $x$  plus the hyperbolic sine of  $x$  gives this type of function. Repeatedly adding a constant to the input of these functions causes the output to get repeatedly multiplied by a corresponding constant. Derivatives of these functions are often taken by multiplying the original function by the natural log of a number. In one subfamily of these functions, each function is its own derivative. These functions’ graphs approach the  $x$ -axis asymptotically on one side only. These functions are inverses of logarithmic functions. Name these functions often used to model population growth and radioactive decay.

Answer: exponential functions [or  $y = e^x$ ; accept or exponential growth or exponential decay]

**Check the score.**

16. This artist painted his wife holding a parasol with their son, standing in a red flower field with another mother-child pair in the background, in *Poppy Fields*. He also painted 18 views of a Japanese bridge over a pond. An art movement was named after a painting by this artist in which two rowboats float in a harbor next to the reflection of a blood-red sun. This artist painted a series of views of Rouen [roo-awn] Cathedral, haystacks, and plants in his garden in Giverny [zhiv-air-nee]. Name this Impressionist who painted a series of *Water Lilies*.

Answer: (Oscar-)Claude Monet

17. After divorcing Mirta Diaz-Balart, this person had children with Naty Revuelta and Maria Laborde. A July 26th attack on the Moncada Barracks was orchestrated by this leader. This person’s speech “History Will Absolve Me” was written while he was in prison for that attack, a sentence he served in Mexico. His party, Granma, shares its name with the vessel on which he sailed back to his country to begin a revolution that ousted Fulgencio [fool-HEN-see-oh] Batista in 1959. An Argentinian doctor named Che Guevara was this leader’s right-hand man. Name this leader of the revolution that brought communism to Cuba in 1959.

Answer: Fidel (Alejandro) Castro (Ruz)

18. During an event in this book, a group of travelers “heard the sound but did not see anyone”, and three days later scales fell from a man’s eyes after Ananias [an-uh-NEE-us] visited him at a house on the Street Called Straight. This book and the book before it both open with a dedication to Theophilus [thee-AH-fuh-luss]. People begin speaking in tongues after the holy spirit descends on them on Pentecost [“PENT-uh-cost”] in this book. Saint Stephen is martyred and Saul is converted in this book. Name this Biblical book that follows John and describes the deeds of Peter and Paul after Christ’s resurrection.

Answer: Acts of the Apostles [prompt on Bible before “[the book] before [it]”; prompt on New Testament before “Theophilus”]

19. This character begins one brief talk by stating “She doth teach the torches to burn bright” and concludes “For I never saw true beauty till this night”. This character states “My life is my foe’s debt” when he learns the identity of the mother of the girl he had been talking about. This character asks “What light through yonder window breaks?” at the beginning of the balcony scene, which leads this boy to ask Friar Laurence to arrange his marriage. This character is friends with Benvolio and Mercutio. Name this “star-crossed lover” from the Montague family, who falls in love with Juliet.

Answer: Romeo Montague [prompt on Montague]

20. Ilya Metchnikov [EEL-yah MECH-nee-kawf] discovered how this body system works at the cellular level [pause] by studying starfish. Cytokine [“SITE-oh-kine”] storms are extreme responses of this body system. This system uses opsonization [ahp-sun-ih-ZAY-shun] signaling to mark cells and relies on the major histo-compatibility complex to attract cells like neutro·phils. Dysfunctions of this system cause lupus and rheumatoid [ROO-muh-toyd] arthritis. It is not the nervous system, but memory cells are key to this system’s humoral response, in which antigens are targeted by B-cell antibodies. Name this system whose white blood cells protect the body from invading pathogens.

Answer: immune system

***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. Lewisite [LOO-ih-“site”], which used to be manufactured because it was a vesicant example of this kind of substance, has an odor similar to geraniums. The organo-phosphorus class of these substances includes Novichok and VX. By combining phosphorus trichloride and methanol, the Aum Shinrikyo cult was able to produce one of these substances called sarin, which was used in the Tokyo subway. Saddam Hussein used the sulfur mustard kind of this substance. Soldiers’ lungs filled with fluid when they were exposed to chlorine acting as this kind of substance in World War I. Identify this group of internationally banned substances.

Answer: chemical weapons or poison gases [prompt on nerve gases]

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

<sup>TB</sup>22. This artist’s version of the *Salvator Mundi* theme, in which a blue-robed Jesus holds a glass orb and raises his right hand, sold for a record-setting 450 million dollars at Christie’s in 2017. This artist used a trademark sfumato [s’foo-MAH-toh] technique for two versions of a scene in which an infant John the Baptist and Jesus sit next to an angel in front of a rocky cliff, entitled *Virgin of the Rocks*. Lisa Gherardini [gair-ar-DEE-nee] probably modeled for a portrait by this artist with a mysterious smile. Name this Italian Renaissance artist of *The Last Supper* and the *Mona Lisa*.

Answer: Leonardo (di ser Piero) da Vinci [accept either underlined portion]

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

<sup>TB</sup>23. The G. K. Chesterton character Gabriel Syme was sometimes referred to by this day of the week. Christians believe that the Last Supper occurred on this day of the week. Identify this day named for the Norse god of thunder, Thor.

Answer: Thursday

***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.***