

Scobol Solo 2019

Packet 14 (Round 14)



1. This character is asked “You have not been mad enough to hide this fellow?” and replies “I swear to God I will never set eyes on him again.” This character says those words in reference to a man who committed murder by clubbing a person with a cane and then stomping on him. Dr. Lanyon and Mr. Utterson discuss this person after Utterson reads this person’s will leaving everything to a person Lanyon had never heard of. That person then murders Sir Danvers Carew. This Robert Louis Stevenson character drinks a chemical that causes him to transform. Name this person who changes into Mr. Edward Hyde.

Answer: Dr. (Henry) Jekyll [accept either underlined name; accept either underlined name of Mr. Edward Hyde before “Edward”]

2. One allotrope [AL-oh-“trope”] of this element is named after Kathleen Lonsdale and is an extremely hard mineral that can be formed when meteorites strike Earth. Some allotropes of this element have thermal conductivities even higher than that of boron arsenide. The most impermeable material ever discovered is an allotrope of this element that is two-dimensional but strong enough to be picked up. That allotrope of this element, which has the same basic structure as its nano-tubes, is graph-ene. Pencils use an allotrope of this element called graphite. Name this element that is present in organic compounds.

Answer: carbon

3. This composer was a teacher of Carl Czerny [CHUR-nee], who gave the Vienna premier of a work by this composer that starts with 2 and a half beats on E-flat followed by three 16th notes and two staccato 8th notes. That work is the *Emperor Concerto*. Another work by this composer was originally titled *Sonata quasi una fantasia* [kwah-zee oo-nah fan-tah-see-ah], but after a comment by Ludwig Rellstab became known as the “Moonlight Sonata”. This composer initially dedicated a symphony to Napoleon, then designated it *Eroica* [eh-ROH-ih-kah]. Name this German composer who ushered in the Romantic Era despite his almost complete loss of hearing.

Answer: Ludwig van Beethoven

4. Idas [EE-duss] was chosen instead of this god by Marpessa, who worried that this god would stop loving her when she aged. This god gave Cassandra the power of prophecy, but when he found out that she did not love him, he took away her power of persuasion so nobody would believe her. This god gave donkey ears to Midas when Midas decided that Pan was a better musician than this god. This god was given his lyre after Hermes stole his cattle. The Oracle of Delphi claimed to be filled with the spirit of this god. Name this twin brother of Artemis who, though he did not ride across the sky like Helios, was a Greek god of the Sun.

Answer: Apollo

5. This country's first prime minister refused to work with Defense Minister Pinhas Lavon [PEEN-khahss luh-VOHN] after bombs were set off in Egypt with the hope that the Muslim Brotherhood would be blamed. The group Irgun [eer-GOON], which supported the creation of this country, bombed a hotel in 1946 in response to Britain's Operation Agatha. This country's first prime minister, who worked out a reparations agreement with West Germany, was David Ben-Gurion [ben goor-ee-OHN]. This country was created by the United Nations Partition Plan. Name this country that controls what used to be Mandatory Palestine and whose creation was supported by the Zionist movement.

Answer: (State of) Israel [or Medinat Yisrael]

6. Some of these organisms are classified as iron-oxidizing because they get their energy from iron. A dangerous strain of these organisms causes necrotizing fasciitis [NEK-roh-ty-zing fash-ee-"EYE"-tiss]. These organisms have peptidoglycan [PEP-tid-oh-GLY-kan] in their cell walls, which is detected by gram staining. Ticks spread these organisms to cause Lyme disease, and other examples of these organisms are responsible for diseases such as cholera [KAH-luh-ruh] and strep throat. These organisms made up much of the Monera [muh-NAIR-uh] kingdom, and they comprise one of Carl Woese's [WOHZ-'z] three domains along with Archaea [ar-KEE-uh] and Eukarya ["you-CARRY-uh"]. Name these prokaryotes, most of which are spherical cocci ["COCK-see"] or rod-shaped bacilli [buh-SILL-"eye"].

Answer: Bacteria or bacterium or eubacteria [prompt on Monera before it is mentioned]

7. Before he extended it, one poem by this writer ended with the question "Where is it now, the glory and the dream?". In that poem, this person wrote "The things which I have seen, I now can see no more." Another poem by this writer begins "Five years have passed" and was inspired by his July 13, 1798 return to a site by the Wye River. Another poem by this writer ends "And then my heart with pleasure fills, and dances with the daffodils." Name this English poet who wrote "Ode: Intimations of Immortality", "Lines Composed a Few Miles above Tintern Abbey", and "I Wandered Lonely as a Cloud".

Answer: William Wordsworth

8. This island is the home of cat-like animals called fossa and hedgehog-like animals called tenrecs. The Merina people, who descend from Malayo-Indonesians, live on high points of this island, such as Tsaratanana Massif [t'SAR-uh-tah-NAH-nuh mah-SEEF]. This large island is southeast of Mayotte [mah-yawt] and the Comoros, and it is west of Mauritius [mor-ISH-uss] and the French island of Réunion [reh-yoon-yaw]. This island separates the Mozambique [moh-zam-beek] Channel from the Indian Ocean. Name this large island whose major city is Antananarivo [ahn-TAH-nuh-nah-REE-voh] and which is located off the east coast of Africa.

Answer: Madagascar

9. This U.S. president signed the Equal Pay Act in an effort to eliminate the gender wage gap. This president ordered troops to stand down when Alabama Governor George Wallace used the troops to prevent African-Americans from entering Birmingham's public schools. He called Martin Luther King's wife when King was writing the "Letter from Birmingham Jail". This president was in a motorcade with Texas Governor John Connally in Dallas when he was assassinated. Name this president whom Lee Harvey Oswald shot in 1963.

Answer: John F(itzgerald) ("Jack") Kennedy [accept J. F. K.]

10. The null hypothesis of a sign test is either that this quantity equals a particular value or that two values of this quantity are equal. This quantity is the input that causes a cumulative distribution function to equal 1/2. This quantity is represented by a segment inside the box in a box plot. For a finite distribution, this quantity must equal one of the numbers in the distribution if the distribution has an odd number of values; otherwise it is computed from two values. This quantity is equivalent to the second quartile. It is less than half and greater than half of the numbers in a distribution. Name this quantity that, like the mean and the mode, is a measure of central tendency.

Answer: median

11. A Caspar David Friedrich painting depicts a man and woman contemplating this object, and Friedrich made two similar paintings showing two men contemplating this object. This object is in the upper right corner of a Henri Rousseau [awn-ree roo-soh] painting that shows a woman in a colorful outfit lying near a lion. This object is in the upper right corner of a Vincent van Gogh painting with a swirling sky, and in that painting, this thing is the largest visible object in the sky and is yellow like the stars. Name this object in the upper right corners of *The Sleeping Gypsy* and *The Starry Night* that can look round or crescent-shaped.

Answer: the Moon

12. One member of this profession becomes an outlaw after being framed for the murder of Li Qiaonu [lee chyao-noo] in *Water Margin*. That person is An Daoquan [dow-chwahn]. Another person with this job becomes a widower when Héloïse Dubuc [eh-loh-eez doob-ook] dies. He later enters into an unhappy marriage with Rouault's [roo-ohl'z] daughter. While working in this job, that person helps Rodolphe Boulanger's [roh-dawlf boo-lawn-zhay'z] servant. Another person with this job works during the October Revolution and falls in love with Lara. Name this job held by Charles Bovary in Gustave Flaubert's *Madame Bovary* and by Boris Pasternak's title character Yuri Zhivago.

Answer: doctor(s) or physician(s)

13. In 2019, some people in this location have adopted the slogan “Be water”, which used to be said by the actor Bruce Lee. Much of this location's Mass Transit Railway has recently been shut down due to a combination of government control and sabotage. A tweet by Daryl Morey, who is the GM of the Houston Rockets, that supported people in this location was quickly deleted but caused a major backlash. This place is led by Carrie Lam, who became the target of major protests after she supported changes to an extradition law. Name this Special Administrative Region of the People's Republic of China.

Answer: Hong Kong (Special Administrative Region of the People's Republic of China)

14. This person's government was recognized by Britain after his brother negotiated the Treaty of Amiens [ahm-yen]. Though he did not live in ancient times, this person was given power by being the First Consul under the Constitution of the Year 8 and then First Consul for Life under the Constitution of the Year 10. Those constitutions were written after the coup of 18 Brumaire [broo-mair], which overthrew the Directory. This person later returned to power during the Hundred Days after having been exiled on the island of Elba, but he was then exiled again, that time to Saint Helena. Name this emperor who led France after the French Revolution and lost power after the Battle of Waterloo.

Answer: Napoleon (I) Bonaparte [accept either underlined name]

15. The heat capacity of an object equals its temperature times the derivative of this quantity with respect to temperature at either constant volume or constant pressure. The Massieu [mass-yoo] potential equals this quantity minus internal energy divided by absolute temperature [pause] and is sometimes called a “free” type of this quantity. This quantity equals the Boltzmann constant times the natural log of the number of possible micro-states. This quantity is a measure of the energy that is unavailable for conversion into work. Name this quantity that cannot decrease according to the second law of thermodynamics, and which is often explained as a measure of disorder.

Answer: entropy

16. Some of the characters in this novel learned to read by studying Blackstone's *Commentaries*. One of those characters in this novel, a garbage collector named Zeebo, leads a church service with Reverend Sykes that has only one hymnal. Zeebo grew up on The Landing, which is where Aunt Alexandra lives in this novel, and he is the son of Calpurnia. One of this novel's characters has the real name "Charles Baker Harris" but is often called Dill. Though Dill lives in Meridian, he spends his summers in Maycomb, Alabama, which is where most of this novel is set. Name this novel about Scout and Atticus Finch, written by Harper Lee.

Answer: *To Kill a Mockingbird*

17. The second of this opera's four acts opens with a song that speeds up and ends by saying girls are "carried away by the whirlwind". That song, "Les tringles des sistres tintaient" [lay treen-gul day seest'r tahn-tay], is sung by this opera's protagonist with her friends Frasquita and Mercédès in Lillas Pastia's inn. After that, a crowd announces the entrance of Escamillo [ess-kah-mee-loh], who sings "Votre toast, je peux vous [pyoo voo] le rendre". The title character of this opera loves Escamillo and is loved by Don José [dohn zhoh-say]. Name this opera featuring the "Toreador Song" that is about a gypsy woman and was composed by Georges Bizet [zhorzh bee-zay].

Answer: *Carmen*

18. A false type of this concept is studied using the Deese-Roediger-McDermott paradigm. This concept is described as "eidetic" ["eye"-DET-ik] when it is particularly strong. A model of this concept using a central executive, phonological loop, episodic buffer, and visuo-spatial sketchpad was developed by Allan Baddeley. This concept was the subject of a paper by George A. Miller on processing information, "The Magical Number Seven, Plus or Minus Two". This ability to retain and recall information has both short-term and long-term components. Name this ability that is absent or damaged in people with amnesia.

Answer: (short-term or working) memory [accept remembering]

19. In alternating-current circuits, instead of this quantity you consider impedance. Electric power can be calculated by multiplying current squared times this property. This quantity is the reciprocal of conductance. This quantity is larger if a circuit is arranged in series than if the same circuit elements were arranged in parallel. This quantity can be increased by making a wire longer or thinner. This quantity is zero in a super-conductor. This quantity equals electrical potential difference, or voltage, divided by current. Name this quantity that is measured in ohms.

Answer: resistance [do not accept or prompt on "resistivity"]

20. During this war, the Colombian Battalion suffered many casualties trying to defend Old Baldy, which some people nicknamed “Suicide Hill”. That battalion had earlier supported this war’s Operation Thunderbolt, which was led by Matthew Ridgway. Old Baldy was near Pork Chop Hill. One side of this war fought for the United Nations, which entered this war when the Soviet Union boycotted the Security Council. When Douglas MacArthur stated a wish to expand this war, he was relieved of his command by President Truman. Name this early-1950s war fought on an Asian peninsula against a communist country led by Kim Il-sung.

Answer: Korean War

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.

- ^{TB}21. In 2018, this state’s Camp Nelson was made a national monument out of respect for its place as a refuge for escaped and emancipated slaves. This state’s town of Blue Heron, which was abandoned and then re-created as a museum, is at the north part of the Big South Fork National River and Recreation Area. A national park in this state is along the Nolin and Green Rivers and includes the Cedar Sink, which is part of the longest cave system in the world. The Abraham Lincoln Birthplace National Historical Park is in this state. Name this state that contains Mammoth Cave National Park.

Answer: (Commonwealth of) Kentucky

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

- ^{TB}22. This leader ordered the execution of Edmund Heines [“highness”] after Heines was found in a hotel room with a chauffeur. Over the next few days, this leader’s government executed several people associated with Ernst Röhm. That incident, codenamed Operation Hummingbird by this person’s supporters, became known as “the Night of the Long Knives”. That incident was a year after this leader centralized power by publicizing the Reichstag [RYK-shtahg] fire. This leader later unified Austria with Germany in the *Anschluss* [AHN-shlooss] and took control of the Sudetenland [zoo-DET-en-lahnt]. Name this German leader during World War II.

Answer: Adolf Hitler

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

- ^{TB}23. A book that claims to be a *Complete* resource on these structures was written by Mark Lehner. Gaius Cestius [“GUY-us” KESS-tee-ooss] is buried beneath one of these structures. El Castillo in Chichen Itza is one of these structures. I. M. Pei designed a structure of this type as an entrance to the Louvre. Name this type of structure, such as the “Great” one in Giza, that has triangular sides sloping up to a point.

Answer: pyramids or step pyramid [prompt on ziggurat or tower]

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.