

Scobol Solo 2017

Packet 4 (Round 4)



1. In one story by this writer, a character pretends to be a shoemaker named Ralph Spencer and later rescues a girl by opening a bank safe. In another story by this writer, two men find a boy throwing rocks at a kitten and ask him if he wants a bag of candy and a nice ride; they end up paying \$250 to the boy's father. This author wrote a story in which Della sells her hair to buy a watch fob chain for her husband Jim. Name this writer known for his ironic endings in stories such as "A Retrieved Reformation", "The Ransom of Red Chief", and "The Gift of the Magi".

Answer: O. Henry [or William Sydney Porter]

2. In 2017, Cambridge scientists developed an artificial silk that consists primarily of this compound. This substance is the most common neutron moderator in nuclear reactors, ahead of graphite. The gram was once defined as the mass of one cubic centimeter of this compound. This is the most common compound to have a negative slope for the solid-liquid phase boundary on its phase diagram, which explains why its solid form floats to the top of its liquid form rather than sinks. Name this compound known as the "universal solvent", in which each molecule has two hydrogen atoms and one oxygen atom.

Answer: water [accept H₂O before "hydrogen"]

3. The first act of one opera by this composer ends with Gurnemanz [GUR-neh-mants] singing that space becomes time. There is a tradition of audiences not applauding the end of that act. In that opera, this composer portrayed Amfortas attacking the sorceror Klingsor. In another opera by this composer, Erda gives a warning shortly before Fafner kills Fasolt. That opera features the aria "Hieher! Dorthin! Hehe! Hoho!" [HE-here, DOR-tin, HEH-heh, HOH-hoh] sung by Alberich [AHL-bair-ikh]. In an opera following that one, the sisters of Brünnhilde sing "Ride of the Valkyries [VAL-kuh-rees]". Name this German composer of *Parsifal*, whose works are often performed in Bayreuth [by-ROYT] and who composed *Das Rheingold* as part of his *Ring Cycle*.

Answer: (Wilhelm) Richard Wagner [REEK-hart VAHG-nur]

4. *The Ten Human Bombs* is a memorial to soldiers who fought in this war at White Horse. A combined U.S., British, and Turkish force in this war held its ground at the Battle of the Hook, which took place at the same time as the Battle of Pork Chop Hill. Edward Almond led the X Corps [tenth core] in this war which, after allied forces were pushed back to the Pusan [poo-sahn] Perimeter, led an enormous amphibious invasion at the Battle of Inchon. The United Nations decided to help one side in this war during a Soviet Union boycott of the Security Council. Name this early-1950s war that established the Demilitarized Zone between Pyongyang and Seoul.

Answer: Korean War

5. Henry George wrote that there should be a single type of this concept and that it should be based entirely on land value. A book titled *The Principles of Political Economy and* [this concept] developed the theory of comparative advantage and increasing rents, and was written by David Ricardo. The types of these things focused on negative externalities are called Pigovian [pih-GOH-vee-un]. The types of these things classified as *ad valorem*, which means “according to value”, are the value-added and sales types. This 16th Amendment allows for this economic concept to be applied to income in the U.S. Name this way that a government raises revenue.

Answer: taxation or taxes

Check the score.

6. One poem by this writer begins “You may write me down in history / With your bitter, twisted lies”. This author of “Still I Rise” wrote a poem that begins “A Rock, A River, A Tree, / Hosts to species long since departed, / Marked the mastodon.” That poem, which states, “Give birth again to the dream”, was titled “On the Pulse of Morning” and was commissioned for the inauguration of Bill Clinton. This poet used a poem by Paul Laurence Dunbar to title one of her autobiographies, which details her childhood in Arkansas, ending with her giving birth at the age of 16. Name this author of *I Know Why the Caged Bird Sings*.

Answer: Maya Angelou [or Marguerite Ann Johnson]

7. This is the number of people in each of René Magritte’s [mah-GREET’s] paintings showing people with white cloths over their heads. This many people are seated at the *foreground* table in Edward Hopper’s *Chop Suey*. A 16th-century painting with a distorted skull at its bottom shows this many *Ambassadors*. Another painting showing this number of people is named for the type of window in the background and shows one of the people holding a pitchfork. Name this number of people in Grant Wood’s *American Gothic*.

Answer: two people

8. The second partial derivative of this quantity with respect to entropy and volume equals the partial derivative of temperature with respect to volume at constant entropy. The Rydberg unit of this quantity equals the Rydberg constant times Planck’s constant times the speed of light. Enthalpy is calculated by adding this quantity plus pressure times volume. Heat is the flow of this quantity caused by temperature differences. The change in this quantity equals the amount of work done. Name this quantity whose internal form is used in thermodynamics, and whose mechanical form is the sum of its kinetic and potential forms.

Answer: energy [accept more specific answers such as internal energy]

9. The public was not told why Peter Strzok [“stroke”] stopped working for this person in August 2017. Michael Dreeben still works for this person, as do some of his former colleagues from Wilmer Hale. It has been reported that this person’s team met with Christopher Steele, who used to be a British intelligence officer. This person was appointed to his current position by Rod Rosen-stein shortly after James Comey was fired as FBI Director; he had also been the FBI Director before Comey. Name this Special Counsel who is investigating, among other things, Russian interference in the 2016 United States elections.

Answer: Robert (Swan) Mueller (III)

10. In 1635, this country passed a law outlawing Catholicism and making emigration a capital crime. That law also limited trade, and those provisions were not reversed until agreements such as the Treaty of Amity and Commerce in 1858, which was signed after the U.S. and Europe threatened to use force. A few years later, this country promised to “seek knowledge” in its Charter Oath. Negotiations to open this country started soon after the Black Ships arrived under Commodore Matthew Perry. The Charter Oath was part of this country’s Meiji Restoration. Name this country that in 1868 moved its capital from Kyoto to Tokyo.

Answer: Japan [or Nippon-koku or Nihon-koku]

Check the score.

11. When one character in this novel says that there are squids that are hundreds of yards long that eat whales whole, an argument ensues over whether squids can go out of the water. The characters in this novel sit on a log that is called “the twister” because it is not anchored down. In this novel, Maurice and Roger bury flowers and kick over sand castles, and it is later said that Roger has a stick sharpened at both ends. During this novel, Roger drops a large boulder that kills Piggy and destroys the conch [kahnk]. Name this novel featuring a power struggle between Ralph and Jack that is about a bunch of boys on an island and was written by William Golding.

Answer: Lord of the Flies

12. In this planet’s atmosphere, a gravity wave several thousand miles long was detected by the *Akat-suki* space probe. *Mariner 2* successfully flew by this planet in 1962. The *Magellan* craft mapped this planet’s surface, finding continents named Aphrodite [“afro-DIE-tee”] Terra and Ishtar Terra. This planet’s surface generally cannot be seen because it is blocked by clouds of sulfuric acid. This planet is hotter than Mercury, making it the hottest planet in our solar system. Name this planet closest to Earth, the second from the Sun.

Answer: Venus

13. Off the coast of this state, Cadillac Mountain is on Mount Desert Island. In the 18th century, this state's Wabanaki Confederacy opposed British occupation. The U.S. Navy and Coast Guard support large annual Fourth of July celebrations in this state's city of Eastport, which is near the town of Lubec [loo-BEK]. The Penobscot [puh-"KNOB-Scott"] River empties into the Penobscot Bay, which is the center of this state's fishing industry. The gulf that shares its name with this state is overlooked by Acadia National Park and is bordered on the east by Nova Scotia. This is the only state to have a land border with exactly one other state. Name this furthest-northeast state.

Answer: Maine

14. Near the end of this person's presidency, he signed a bill requiring payments for government lands to be in gold or silver, which some people blamed for a major economic downturn and which was called the Specie Circular. This president threatened to hang his vice president, John Calhoun, during the Nullification Crisis. When Nicholas Biddle pushed for an early recharter of the Second Bank of the United States, this president vetoed the bill. This person fought Native Americans before his presidency during the First Seminole War, and as president he signed the Indian Removal Act. Name this hero of the Battle of New Orleans, a populist who served between John Quincy Adams and Martin Van Buren.

Answer: Andrew Jackson

15. In one novel by this author, the protagonist pretends to be Sinbad the Sailor while saving his former employer, Morrel, and also pretends to be an Italian priest named Abbé Busoni. This author had that character take the place of the dead body of Abbé Faria in order to escape prison. In another novel, this author wrote about a man who falls in love with his landlord's wife, Madame Bonacieux [boh-nah-syoo], and who also falls in love with a woman branded with the fleur-de-lis [floor d' lee], Lady de Winter. Name this author who wrote about Edmond Dantès [dahn-tess] in *The Count of Monte Cristo* and about d'Artagnan [dar-tahn-yaw] in *The Three Musketeers*.

Answer: Alexandre Dumas [doo-MAH] (père) [or Dumas Davy de la Pailleterie]

Check the score.

16. Recent research indicates that the quality of this kind of cell can be determined by observing a rapid zinc release. So-mat-ic cell nuclear transfer uses an e-nucleated [ee-NOOK-lee-ay-tid] cell of this type to clone animals. While this kind of cell is developing, its nucleus is a germinal [JUR-muh-nul] vesicle, which changes when the polar bodies are created along with this kind of cell. Luteinizing [LOO-tuh-ny-zing] hormone stimulates the release of this kind of cell from the follicle. Name this kind of cell that then moves through a Fallopian tube to the uterus.

Answer: egg cell or ovum [or ova; or oocytes]

17. A form of this food with a cherry on top is eaten during the Feast of St. Agatha. According to English legend, if this type of food is made on Good Friday, then it will not go bad for a year. A form of this food called tsoureki [tsoo-REK-ee] is used to represent the Holy Trinity during Easter and often is made with red eggs inside to represent the blood of Jesus. Using a little bit of fish and this food, Jesus was able to feed 5,000 people and he later declared, “I am the [this food] of life”. Name this food that is eaten by Jews in its unleavened form, matzah, during Passover and in braided form, challah [KHAH-lah], during the Sabbath.

Answer: bread [accept buns or loaf/ves]

18. The 40th clause of this document states “To no one will we sell, to no one deny or delay right or justice.” This document’s limits on the use of exiles are a reaction against the treatment of Robert Fitz-walter. The 39th clause of this document used “lawful judgment of his peers or by the law of the land” as the only standard for imprisonment. Ten years after the first version of this document was issued, Henry III reissued it along with the Charter of the Forest. Though this document was supposed to prevent war, the First Barons’ War ensued shortly after it was signed. Name this document signed at Runnymede in 1215 by King John that limited royal power.

Answer: Magna Carta (Libertatum) [or Magna Charta or Great Charter]

19. During the 1720s, this person wrote passion music for Good Friday performances in Leipzig, including the *St. John Passion* and the *St. Matthew Passion*. A piece by this composer opens with a quarter note and sixteenth rest, followed by a descending octave interval with four 64th notes. That piece, which was the opening piece in *Fantasia*, is this composer’s *Tocatta and Fugue in D minor*. This composer also wrote a set of six concerti [“con-CHAIR-tee”] that were given to Christian Ludwig [LOOT-veek], a margrave. Name this German Baroque composer of the *Brandenburg Concertos*.

Answer: Johann Sebastian Bach [prompt on partial answers]

20. Archimedes used the method of exhaustion to show that the area between a segment and this curve is equal to $\frac{4}{3}$ of the area of a triangle inscribed between them. Menaechmus [MEN-“Ike”-muss] used the intersection of two of these shapes to double the cube. Mirrors whose axial cross-sections are this shape can effectively focus light in one direction, since any line from this shape’s focus is reflected perpendicular to its directrix. This shape is generated by slicing a cone at the same angle as the cone’s slant. These conic sections have one line of symmetry that passes through their vertex. Name this conic section whose eccentricity is always 1, one example of which is the graph of $y = x^2$.

Answer: parabola(s)

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. One novel by this author opens by describing a Jewish Princeton alumnus in Paris who has two friends: his literary friend Braddock and his tennis friend, who is the narrator. In that novel, this author wrote about an impotent man who falls in love with an Englishwoman; the major characters in that novel travel to Pamplona. In a short novel by this writer, Manolin assists an unlucky man who often refers to Joe DiMaggio and who catches a giant marlin that is then eaten by sharks. Name this American author who wrote about Jake Barnes in *The Sun Also Rises* and about Santiago in *The Old Man and the Sea*.

Answer: Ernest (Miller) Hemingway

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

TB22. This organ does not function properly when the body lacks selenium and is infected by coxsackievirus B3, causing Keshan disease. The relationship between the input and output of this organ is called the Frank-Starling law. The muscles in this organ are both striated [STRY-“ate-id”] and involuntary, and that specialized tissue is located in this organ’s myo-card-ium. This organ’s tri-cuspid valve separates its right atrium from its right ventricle. The aorta leaves this organ’s left ventricle. Name this organ that pumps blood.

Answer: heart

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

TB23. Some of the great moments in this sport’s history have involved Joe Carter, Bill Mazeroski, and Kirk Gibson. This sport is portrayed in the movies *Bang the Drum Slowly*, *A League of Their Own*, and *Field of Dreams*. Willie Mays, Ted Williams, and Babe Ruth were stars in this sport. Name this sport played by the Padres, Orioles, and Yankees.

Answer: baseball

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.