

Scobol Solo 2018

Packet 9 (Round 9)



1. A character in this novel is told “Do not apologize; you are always late” before another character falsely claims to be dying. Soon after, the same character in this novel is told by a distant aunt that he should remarry, though he says that his family life consists of visiting his three children at his mother-in-law’s house. Soon after that, this novel introduces a woman who also has two sons and a daughter—including the city magistrate Ronny Heaslop—who is named Mrs. Moore and leaves town before Ronny gets married. In this novel, Dr. Aziz is tried for assaulting Adela Quested. Name this novel set in the time of the British Raj by E. M. Forster.

Answer: *A Passage to India*

2. One type of synthetic-aperture radar uses this effect for beam-sharpening and is used by guided missiles. This effect caused by parent stars is measured in a technique to find extra-solar planets, a technique nicknamed the “wobble method”. This effect causes spectral lines to broaden and is used to detect motion in ultrasounds. The relativistic form of this effect uses the quantity “speed of light plus velocity”, end quantity, divided by the quantity “speed of light minus velocity”. Name this effect that occurs when a wave source and observer are in relative motion, and that causes redshifts.

Answer: Doppler effect

3. One work that advocates this position uses the example of referring to children as monetarists [MAN-nih-tah-ristz], Keynesians [“CANES”-ee-unz], or Marxists to outline the absurdity of an opposing position. A 21st-century movement advocating this position has been supported by a group nicknamed “The Four Horsemen”, including Daniel Dennett, Christopher Hitchens, and the author of *Waking Up*, Sam Harris. Russell’s Teapot is an argument in favor of this position, and the theory of evolution is used to support it in *The Blind Watchmaker* by Richard Dawkins. Name this belief that there is no God.

Answer: atheism [or atheist(s)]; prompt on descriptions like not believing in God or believing there is no God or not being religious

4. In a painting by this artist, a woman sits at a table with a plate of fish and holds a mortar and pestle, while an older woman points her index finger at her. A drunkard kneels and is crowned with a branch of thorns by a Greek god in a painting by this artist of *Christ in the House of Martha and Mary*. This artist of *The Triumph of Bacchus* [“BACK-us”] painted Don José Nieto [dohn hoh-ZAY nee-AY-toh] standing on steps behind a door in the back of a painting in which this artist himself stands next to an easel. In that painting by this artist, a sleeping dog sits next to a dwarf attending to Infanta Margaret Theresa. Name this painter of *Las Meninas*.

Answer: Diego (Rodriguez de Silva y) Velázquez

5. This leader founded the postal service that served his empire until its end, the Chapar Khaneh. The Massagetae [mass-uh-GAY-tee] under Queen Tomyris [TOH-mir-iss] killed this person and his army, according to Herodotus [huh-RAH-tuh-dus]. At the Battle of Thymbra, this leader defeated King Croesus [KREE-suss] and conquered the Lydian [LID-ee-un] Empire. This person's namesake cylinder was inscribed with the first charter of human rights and was very critical of his enemy Nabonidus [nab-un-"EYE"-duss], who led Babylonia. This leader's edict of Restoration freed the Jews from the Babylon Captivity. Name this founder of the Achaemenid [uh-KEE-muh-nid] Persian Empire.
Answer: Cyrus the Great [or Cyrus II of Persia or Cyrus the Elder; prompt on Cyrus]

Check the score.

6. A poem by this writer says "Pack up the moon and dismantle the sun" and ends "For nothing now can ever come to any good." Another poem by this writer ends with a delicate ship that "had somewhere to get to and sailed calmly on" after seeing "a boy falling out of the sky". The French title of that poem refers to a building in Brussels. Another poem by this writer states "Those to whom evil is done [pause] do evil in return" and "We must love one another or die." That poem is set at the outbreak of World War II. Name this poet born in England who wrote "Funeral Blues", "Musée des Beaux Arts" [moo-zay day boh-zar], and "September 1, 1939".

Answer: W(ystan) H(ugh) Auden

7. Photo-diode and photo-resistor 43 can detect this compound because it has a strong absorption band at 4300 nanometers, and there is another strong band at 15 microns. The Weyburn-Midale [WAY-burn "MY-dale"] Project is an attempt to store this compound in a geological formation. An increase in this compound is believed to have caused the Paleocene-Eocene [PAY-lee-oh-seen EE-oh-seen] Thermal Maximum. This compound has gone from under 300 parts per million in our atmosphere to over 400 within the past 200 years, which has increased ocean acidification and provoked climate change. Name this greenhouse gas that is consumed in photosynthesis.

Answer: carbon dioxide

8. This god is typically depicted with an animal called the *sha* that resembles no real animal. Another god tried to harpoon this god but ended up getting her head cut off and replaced with a cow's head. A golden disk appeared on this god's forehead after he ate a piece of lettuce that contained semen. This god was often confused for Typhon ["TIE"-fahn] and defeated his brother in combat by cutting him into 14 pieces. This god's primary rivalry was with his nephew Horus and his mother Isis. Name this Egyptian god of chaos and disorder.

Answer: Set or Seth [or Setesh or Sutekh or Suty]

9. This action began earlier than planned when Ma Yuanyi was betrayed and his body torn to pieces. One of his allies, Zhang Mancheng, led troops who killed Chu Gong, the governor of Wancheng, early during this event, around the same time that Zhu Jun was being forced from Changshe by Bo Cai [boh “sigh”]. The brothers who led this action called themselves Lord General of People, Lord General of Earth, and Lord General of Heaven, and they were led by Zhang Jue [JOO-ay]. Name this 184 CE rebellion by Taoists against the Eastern Han dynasty, named for the colored cloths the rebels wore on their heads.

Answer: Yellow Turban Rebellion or Yellow Scarves Rebellion or huangjin qiyi [accept reasonable synonyms for “Rebellion”]

10. This country had an architecture movement that emphasized ideas about organic growth, called Metabolism. An architect from this country designed a building that lets in light through crossbar slits, called the Church of the Light. A tower in this country consists entirely of stacked square units and is called a “Capsule Tower”. An airport on an artificial island in this country was designed by Renzo Piano, though the island has sunk 38 feet since 1994. A hotel in this country famously survived a 7.9 magnitude earthquake and was designed in a Maya Revival style. Name this country in which Frank Lloyd Wright designed one version of the Imperial Hotel and which was home to the architects Tadao Ando and Kenzo Tange [tahn-gay].

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

Check the score.

11. One species in this phylum is the preferred model organism for studying poly-spermy and fertilization. Herbivores from this phylum decimated Pacific kelp forests when their predators, sea otters, were hunted nearly to extinction. Crinoids [“CRY”-noydz] and sand dollars belong to this phylum. Animals in this phylum have a unique mouth organ called Aristotle’s lantern. The madreporite [MAD-ruh-POR-ite] supplies fluid to the these organisms’ water vascular system. These animals move using tube feet and often have penta-radial symmetry. Name this phylum of “spiny-skinned” marine animals, including the sea cucumber, sea urchin, and starfish.

Answer: Echinodermata [eh-KY-noh-dur-MAH-tuh] or echinoderms

12. A complaint was filed by Adam Lovinger [LUV-un-jur] when he lost this in 2017. On the other hand, William McRaven wrote an open letter requesting to have this taken away. A letter removing this in another case mentioned “wild outbursts on the internet and television”. The letter ‘Q’ in “Q Anon” refers to a level of this. Susan Rice, Andrew McCabe, and James Clapper were among the people accused by Sarah Huckabee Sanders of politicizing and monetizing this, and President Trump took this away from John Brennan. Name this authorization to view classified information.

Answer: security clearances [or access authorization or sensitive clearance]

13. This author wrote about a character who shrinks and loses her hair after a car crash in California, calls her mother “Sweetness”, and often goes by the name “Bride”. This author of *God Help the Child* wrote the libretto for the opera *Margaret Garner*. In another novel by this author, the protagonist remembers giving birth on a boat and naming her daughter after Amy Denver. When a white man tries to give Denver a job, he is attacked with an ice pick by Denver’s mother Sethe [SETH-uh]. Name this African American woman who wrote about escaped slaves in *Beloved*.

Answer: Toni Morrison [or Chloe Ardelia Wofford]

14. Thomas Mathews wrote that this person’s actions were preceded by the omens of a comet, lots of pigeons, and swarms of large flies. This person became a leader after Native Americans killed Robert Hen. This person’s “Declaration in the Name of the People” complained about high taxes and the lack of protection from Native Americans on the frontier. This person eventually died from dysentery [DISS-in-tair-ee], and many of his followers were hanged. This person’s complaints were directed at William Berkeley [BARK-lee], who eventually retreated from Jamestown. Name this Virginia settler who led a rebellion in 1676.

Answer: Nathaniel Bacon

15. In an iso-thermal process, work is proportional to the log of a ratio of the final and initial values of this quantity. It is not heat, but the “specific” version of this quantity is the reciprocal of density. This quantity is held constant both within a bomb calorimeter [kal-or-IM-ih-tur] and in an isochoric [“ice”-oh-KOR-ik] process. The b parameter in van der Waals’ equation corrects this quantity for gas molecules. Enthalpy equals internal energy plus pressure times this quantity. According to Boyle’s law, this quantity is inversely related to pressure, which is why this quantity is multiplied by pressure in the ideal gas law. Name this quantity that can be measured with a buret [byoo-RET] or graduated cylinder in units such as milliliters.

Answer: volume

Check the score.

16. The end of a village by this body of water is the subject of the film *The Last Year of El Congo Mirador*. The General Rafael Urdaneta [rah-fy-EL oor-dah-NAY-tah] Bridge connects a major city that shares its name with this body of water to places east of this body. There is a lot of lightning where the Catatumbo [kah-tah-TOOM-boh] River enters this body of water, which is why the flag of the state of Zulia [ZOO-lee-uh] shows a lightning bolt. Much of this body of water is covered by duckweed. The basin surrounding this lake is a major source of oil in the Western Hemisphere. Name this inlet of the Caribbean Sea that connects to the Gulf of Venezuela.

Answer: Lake Maracaibo

17. This composer used an aria from an opera he had abandoned to write the *Oraison funèbre* [oh-ry-saw foo-neb-ruh], or Funeral Oration, which is the second movement in one of his symphonies. That symphony, whose other two movements are a “Funeral March” and an “Apotheosis”, is *Grande symphonie funèbre et triomphale* [grahnd seem-foh-nee foo-neb-ruh eh tree-um-fahl]. This composer introduced the *idée fixe* [ee-day feeks] as a musical concept, which he used to represent the artist’s beloved in a symphony that starts with “Reveries—Passions”. That artist dreams that he kills his beloved in this composer’s “March to the Scaffold” movement. Name this French composer of *Symphonie fantastique* [seem-foh-nee fan-tas-teek].

Answer: (Louis-)Hector Berlioz [“bare”-lee-ohz]

18. This author began a four-novel collection by writing “Deep is the well of the past. Should we not call it bottomless?” Though that collection begins with a section describing a lone tree and named for Ishtar, it is about Joseph and his brothers from the Bible. Another book by this author is about an author who considers travel a “hygienic necessity” and begins with the fictional author taking a walk in Munich. When that author learns of a cholera [KAH-luh-ruh] epidemic, he hopes that it kills everybody but Tadeusz [tah-DAY-yoosh]. Name this 20th-century German author who wrote about Gustav von Aschenbach in *Death in Venice*.

Answer: (Paul) Thomas Mann [toh-mahss mahn]

19. Around 1430, the ruler of this country wrote a book on the skills of medieval knights, called *Book on Horsemanship*. That leader of this country gave his brother as a hostage to the Marinids, and the brother eventually died in captivity. Tristão Vaz Teixeira [teh-“SHARE”-ah] was one of the founders of Madeira, which is now an autonomous part of this country. Another explorer from this country was the first European to round the Cape of Good Hope. This country’s House of Aviz [ah-VEEZ] had an “Illustrious Generation” that included Prince Henry the Navigator. Name this country that sent out the explorers Bartolomeu Dias [bar-too-loo-MEH DEE-ahsh] and Pedro Cabral, who started the colonization of Brazil.

Answer: Portugal [or Portuguese Republic or República Portuguesa]

20. This shape is formed if you draw a cube without depth perception so that your view is along a diagonal. Other than the truncated cube and truncated dodecahedron [doh-dek-uh-HEE-drun], all truncated Archimedean [ark-ih-MEE-dee-un] solids have faces with this shape. This is the fewest-sided regular polygon that isn’t the face of any Platonic solid, and it is the most-sided regular polygon that can tessellate [TESS-uh-“late”] the plane. This polygon’s longest diagonals divide it into equilateral triangles. Name this polygon whose internal angles measure 120 degrees and that has six sides.

Answer: regular hexagon

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. This thing is referred to as “gebrochts” [guh-BROHKTS] if it has absorbed liquid, a classification that has led to religious controversy over whether it is permitted. At the beginning of the holiday on which it is used, three of these things are stacked in the middle of a table, and the middle of the three is broken and hidden for children to search for. This food is, in part, a substitute for chametz [kha-“MATES”]. This food isn’t sweet, but the afikoman [ah-fee-KOH-men] is a piece of it used for dessert. This food is said to have originated because the Israelites were in a hurry to leave Egypt. Name this food eaten in commemoration of the Exodus on Passover, an unleavened bread.

Answer: matzah

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

^{TB}22. In one of her poems, Emily Dickinson mentions “the spectre of solidities whose substances” are like this substance, and in another poem Dickinson states “this brief tragedy of flesh is shifted like” this substance. In Percy Bysshe Shelley’s “Ozymandias”, “Half sunk a shattered visage lies” on top of this substance, and the last line of the poem states that this substance is “lone and level” and “stretch[es] far away.” In another poem, Robert Frost says that in this substance, the sea buries “the men she could not drown”. Name this substance which, in Frost’s poem, makes up dunes.

Answer: sand [prompt on desert]

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

^{TB}23. A major river system on this continent contains the Argun and Amur Rivers. Lake Balkhash is on this continent, as are the cities of Dhaka [DAH-kah], Seoul [“soul”], and Karachi [kah-RAH-chee]. Name this continent that contains Thailand, Afghanistan, and China.

Answer: Asia

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.