

Scobol Solo 2015

Packet 4 (Round 4)



1. Though it's not Cleveland, this city's Jamaica Pond is part of its Emerald Necklace park system. This city's Shawmut Peninsula was expanded by land reclamation projects in this city's Bulfinch Triangle and Back Bay neighborhood. This city's neighborhood of West Roxbury was the home of the utopian experiment Brook Farm. Like Chicago, this city has a John Hancock Tower and a Haymarket Square, which in this city is near Faneuil [FAN-yul] Hall. Its Charlestown neighborhood includes the Revolutionary War sites Breed's Hill and Bunker Hill. The Charles River separates this city from Cambridge, the home of Harvard University and MIT. Name this city, the capital of Massachusetts.

Answer: Boston, Massachusetts

2. This island was an independent republic for a few months in 1895 before it and several smaller islands were taken over by Japan following the Treaty of Shi-mo-no-sek-i. Several Hakka people on this island were killed by Japanese occupiers during the Beipu incident. This island celebrates Peace Memorial Day to remember the beginning of its White Terror period, the Two Two Eight Incident. Supporters of independence for this island now vote for the Pan-Green Coalition. This island is joined politically with Penghu. A retreat to this island was made in 1949 by the Kuomintang [kwoh-meen-tayng] under Chiang Kai-shek. Name this island that is the main part of the Republic of China, and which is east of the People's Republic of China.

Answer: Taiwan [or Taipei; accept Republic of China before "Republic"]

3. Mala·costeus niger [mal-uh-koh-STAY-us NY-jur] uses this substance to perceive red light. Senescence [suh-NES-sens] involves the conversion of this molecule to a group of cyclic tetra·pyrroles [TET-ruh "PIE-roles"]. One variant of this compound lacks an iso·pre·noid ["eye"-soh-PREE-noyd] tail and is golden, unlike its A and B variants. This compound has a magnesium ion coordinated at the center of a porphyrin [por-FEER-in] ring, and is found in the thylakoid ["THIGH"-luh-koyd] membrane. P680 and P700 are the photo-systems in which this compound is arranged at the reaction center. Name this light-absorbing green pigment used in photosynthesis by plants.

Answer: chlorophyll [accept more specific answers]

4. This person decided to paint after serving as a missionary around Mons, Belgium. One of his paintings depicts people who, according to him, “had no money to pay for a lodging, or are too drunk to be taken in”. This artist gave that painting to Joseph Ginoux [zhee-noo] to pay for his own lodging, and Ginoux is shown wearing white in the center of the picture behind a pool table. Another of this artist’s paintings, showing Saint-Rémy-de-Provence [sawn ray-mee day proh-vanss] beyond a large cypress tree as seen from his asylum window, depicts a swirling sky. Name this painter of *The Night Cafe* and *The Starry Night* who cut off part of his ear.

Answer: Vincent van Gogh

5. In one novel by this writer, the teacher Odili visits the Minister of Culture, who has an affair with Odili’s wife. This writer addressed political corruption in both that book, *A Man of the People*, and his novel *No Longer at Ease*. In another novel by this author, Ezeudu’s [eh-ZOO-doo’s] son is accidentally killed at Ezeudu’s funeral, leading to the exile of the protagonist, who returns to his village to find that many of its people have turned to Christianity. That novel is part of this author’s African Trilogy and is about a man from the village of U·mu·o·fi·a named O·konk·wo. Name this Nigerian author of *Things Fall Apart*.

Answer: Chinua Achebe [or Albert Chinualumogu Achebe]

Check the score.

6. Lord Tennyson called this person “the last great Englishman.” After this person exclaimed “Marmont is lost”, he won the Battle of Salamanca during the Peninsular War. This person had previously defeated troops fighting under Anthony Pohlmann at the Battle of Assaye, leading the British East India Company to victory during the Second Anglo-Maratha War. His biggest victory came after indecisive fighting at the Battle of Quatre Bras [kwah-truh brah]. Allied with Prince Blücher [BLOO-kur] of Prussia, this general won the War of the Seventh Coalition in 1815. Name this duke who defeated Michel [mee-shel] Ney and Napoleon at the Battle of Waterloo.

Answer: Arthur Wellesley, 1st Duke of Wellington [accept either underlined portion]

7. In this kind of shape, segments from vertices to the opposite sides’ extouch points intersect at the Nagel point. Apollonius’ [ap-uh-LOH-nee-us] theorem relates squares of side lengths in this shape to a certain segment through it. If one side of this shape is the circumference of a circle circumscribed around it, then one of its angles must be a right angle, according to Thales’ [THAY-leez] theorem. This kind of shape’s area can be found by finding its semiperimeter and applying Heron’s formula, or by multiplying one half times its base length times its altitude or height. Name this shape that, if it is equilateral, has 60-degree angles.

Answer: triangles

8. This text states “My vineyard will I cause to be burned with fire” at the end of a story about tame and wild olive trees. This book also contains a speech by King Benjamin declaring that he will be succeeded by his son Mosiah. This book’s authenticity is attested to by the Testimony of Three Witnesses and the Testimony of Eight Witnesses. This text describes the Nephites and Lamanites, and its last section was written by the prophet Moroni [muh-ROHN-“eye”]. The original copy of this book was buried in New York and written on golden plates in “reformed Egyptian”. Name this fundamental text of the Latter-Day Saint movement that was translated by Joseph Smith.

Answer: Book of Mormon [accept Book of Jacob before “Benjamin”]

9. Antonio Sanchez now plays this instrument for the Pat Metheny Group, replacing Danny Gottlieb and Paul Wertico. This was the primary instrument played by Kenny Clarke, who changed his name to Liaqat Ali Salaam and was nicknamed “Klook”. Several performers on this instrument, such as Omar Hakim and Max Roach, performed on the album *Burning for Buddy* to honor Buddy Rich. Techniques for playing this instrument include para-diddles, flams, and stroke open rolls. Pieces that either are a type of this instrument or are played with it include the hi-hat, tom, and cymbal. Name this percussion instrument played with sticks.

Answer: drums [accept drummers; prompt on percussion instruments]

10. One character in this novel asks, “How would you like to be shut up for hours with a nervous, fussy old lady?”. She asks that after another character in this novel complains about “teaching those tiresome children nearly all day”, another character wishes for the books *Undine* and *Sintram*, and another character asks for Faber’s drawing pencils. In this novel, those characters live near Laurie, who is tutored by John Brooke before entering Harvard. The main characters in this novel are the daughters of a Civil War soldier, and they refer to their mom as Marmee. Name this novel about Meg, Jo, Beth, and Amy March that was written by Louisa May Alcott.

Answer: Little Women

Check the score.

11. Multiplying this quantity squared times the speed of light squared gives the change in relativistic energy due to motion. This quantity equals Planck’s constant divided by the de Broglie [duh BROY] wavelength of an object. This quantity equals the derivative of kinetic energy with respect to velocity. Its derivative with respect to time equals net force according to Newton’s Second Law, which is why the action-reaction pairs in Newton’s third law guarantee the conservation of this quantity. The change in this quantity in an object equals the impulse applied to that object. Name this quantity equal to mass times velocity.

Answer: linear momentum

12. This country has been criticized for keeping the activist Bahareh Hedayat [bah-HAH-reh heh-"DIE"-aht] in prison. In 2015, the United States accused this country of releasing Saif [sy-EEF] al-Adel, a member of the Shura Council that rules al-Qaeda. In 2016, this country will have an election to select its next Assembly of Experts and its parliament, or Majlis [MAHJ-lis]. The Assembly of Experts, currently headed by Mohammad Yazdi, is in charge of supervising this country's Supreme Leader. In 2015, this country and the P5+1 nations agreed to a deal ending economic sanctions in exchange for this country reducing its nuclear capabilities. Name this country currently headed by Hassan Rouhani [roo-HAH-nee] and Ali Khamenei.

Answer: (Islamic Republic of) Iran [or Jomhuri-ye Eslami-ye Iran]

13. This U.S. president organized the Algeciras [al-juh-SEER-us] Conference during the First Moroccan Crisis. His Secretary of Commerce and Labor, Oscar Straus, was the first Jewish cabinet member. This president reached a "gentlemen's agreement" over the issue of immigration with Japan. When Venezuela was blockaded by European countries, this president sent Admiral George Dewey and threatened war. That action prompted this president's corollary to the Monroe Doctrine, which was part of his "big stick" approach to diplomacy. His work to break up large corporations gave him the nickname "trust-buster." Name this successor of William McKinley, who later started the Progressive "Bull Moose" Party.

Answer: Theodore Roosevelt [accept Teddy Roosevelt; prompt on Roosevelt]

14. One character in this novel refers to years using the phrase "Anna Dominoes". That character in this book, who worked as a Resurrection-Man—meaning that he dug up dead bodies—is Jerry Cruncher. In this novel, Jarvis Lorry replies to a message from Cruncher by saying "Recalled to Life." That message leads a man obsessed with shoemaking to be reunited with his daughter, Lucie Manette. During this novel, Madame Defarge [duh-farz] knits a registry of people who should be killed during the French Revolution. Name this Charles Dickens novel that begins "It was the best of times, it was the worst of times."

Answer: *A Tale of Two Cities*

15. Barry Sharpless investigated how this substance's use as a solvent caused Claisen [KLY-sen] rearrangements to occur faster than they would in organic reactions. According to Svante Arrhenius [SVAHN-tuh uh-RAY-nee-uss], this compound's reaction with acids forms hydronium ["high"-DROH-nee-um] ions. When it is impure, this compound may be "softened" by removing compounds such as calcium and magnesium, making detergents more effective. The freezing point of this compound was used to define zero degrees Celsius. Name this compound, often called a universal solvent, whose formula is H₂O.

Answer: water [accept H₂O before the end]

Check the score.

16. This concept is compared to a disability in an essay written by McDermott and Varenne that discusses Wells' "The Country of the Blind". Ruth Benedict said that this concept is "what really binds men together" in her book named *Patterns of it*. This concept names a major branch of anthropology similar to social anthropology, and the type of relativism named for this concept developed from writings by Franz Boas. Margaret Mead defined this concept as the "whole complex of traditional behavior which has been developed by the human race and is successively learned by each generation". Name this concept whose "popular" form is often transmitted through mass media such as television.
Answer: culture [accept cultural anthropology or cultural relativism]
17. The premier of this composer's only violin concerto was postponed due to complaints by soloist Leopold Auer ["our"], and his first piano concerto was postponed due to complaints by soloist Nikolai Rubinstein. One of this composer's symphonies was not numbered because it was originally program music for Lord Byron's "Manfred". Historians debate whether this composer's death in 1893 was from cholera [KOL-ur-uh], as was originally reported, or suicide after his marriage failed and his homosexuality became known. This composer died soon after the premier of his sixth symphony, *Pathétique* [pa-the-teek]. Name this composer who used cannons in his *1812 Overture* and who wrote the ballet *The Nutcracker*.
Answer: Pyotr Ilyich Tchaikovsky [accept Peter Tchaikovsky]
18. Until its building was burned down during the funeral of Publius Clodius Pulcher, this organization met in the Curia Hostilia. Eighteen members of this organization were exiled after the Nika [NEE-kah] riots because they had supported Hypatius ["high"-PAY-shuss]. Julius Caesar temporarily increased the number of people in this organization from about 600 to about 900. People were allowed to join this institution when they were elected or appointed as a quaestor ["quest-or"]. Status in this institution grew as people became aediles [EE-"dials"] and praetors [PRAY-torz], and this group selected Roman leaders. Julius Caesar defied this group when he crossed the Rubicon, and members of it later assassinated him. Name this legislative body in an ancient empire.
Answer: (Eastern or Western) Roman Senate [or Byzantine Senate or Senators]
19. In Anne Brontë's poem named for these things, she pictures herself on a couch with an infant. Pablo Neruda expressed jealousy in a poem about one of these things for a cat. In a William Blake poem, one of these things "did weave a shade". Langston Hughes wrote "to fling my arms wide in some place of the sun" in a poem named for their variations, and also wrote that if these things die, "life is a broken-winged bird that cannot fly." In the Hughes poem "Harlem", he asks whether one of these might "dry up like a raisin in the sun" if it is deferred. Name these things interpreted by Sigmund Freud that take place during R.E.M. sleep.
Answer: dreams [or dreaming]

20. A gate implementing this operation can be constructed by feeding each input into both inputs of a NAND [rhymes with “brand”] gate, then NANDing [rhymes with “branding”] the result. The bit-wise version of this operation is used with a mask to turn *on* a single bit in a bit field. This operation can be short-circuited if the first operand is *true*, and in logic diagrams its symbol has all three sides curved. This operation’s analogue in set theory is the union operation. Name this logical operation, often denoted by two vertical bars, which returns “true” if at least one of two inputs are true.
- Answer: logical or or logical disjunction [accept bitwise or after “mask”]

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. The cause of this concept was connected to the limbic system by James Papez, whose theories were extended by Paul MacLean. Physiological arousal and cognitive interpretation are the basis of Stanley Schachter and Jerome Singer’s two-factor theory of this concept. Paul Ekman created an atlas of this concept, connecting it to various facial expressions. Feelings are representations of this concept. Ability and trait E.I. is a measurement of how well people handle and recognize the experience of this concept. Name this concept equivalent to state of mind, examples of which include angry or happy.
- Answer: emotion [prompt on feelings before “feelings”]

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

- ^{TB}22. This person’s body now rests at the Seville Cathedral after several moves. His family filed several lawsuits after his death based on the *Capitulations of Santa Fe* agreement and the claims in his *Book of Privileges*. Some of those claims were to gold in Veragua that was found by this man and his brother Bartholomew. This person’s first major expedition landed in what he called San Salvador, which is in what is now the Bahamas, before exploring Cuba and Hispaniola. The areas he explored are now called the West Indies. Name this explorer supported by Ferdinand and Isabella starting in 1492 and whose ships were the Niña, Pinta, and Santa Maria.
- Answer: Christopher Columbus [or Cristoforo Colombo or Cristobal Colón]

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

- ^{TB}23. This state’s governor is Rick Snyder. This state’s senators are Gary Peters and Debbie Stabenow. This state is north of Ohio and Indiana. Name this state whose cities include Flint, Lansing, and Detroit.
- Answer: Michigan

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.