

# Scobol Solo 2016

## Packet 8 (Round 8)



1. Eight atoms of this element form a hypothetical allotrope [AL-oh-"trope"] with an identical structure to cubane ["CUBE"-ayn], predicted to be a powerful explosive. A single atom of this element is found in both pyridine [PEER-uh-deen] and aniline [AN-uh-lin]. Three atoms of this element form an anion [AN-"eye"-on] commonly used in airbags. This element is the lightest of the pnictogens [NIK-toh-jinz], and like phosphorus, tends to form three bonds. The natural form of this element is a di-atomic gas that makes up the majority of Earth's atmosphere. Name this element that combines with hydrogen to form ammonia.

Answer: nitrogen [accept N]

2. A school in this novel advertises "in about a thousand magazines, always showing some hotshot guy on a horse jumping over a fence." A character in this novel leaves her kings in the back row when she plays checkers and has a stepfather who used to go around the house naked. That character, Jane Gallagher, goes on a date with Stradlater in this novel. Dr. Thurmer tells the protagonist of this novel that life is a game, upon which the protagonist calls him a "phony slob". Thurmer is the headmaster of Pencey Prep in what novel narrated by Holden Caulfield and written by J. D. Salinger?

Answer: *The Catcher in the Rye*

3. Some historians believe that Hernando de Soto died in what is now the southeast part of this state, in McArthur or Guachoya, near the crescent-shaped Lake Chicot [SHEE-koh]. In the western part of this state, de Soto explored what is now Ouachita [WASH-ih-taw] National Forest. Its second-most populous city was a fort that was captured by Union forces at the Battle of Devil's Backbone. Though it is not North Carolina, its main state universities are in Jonesboro and Fayetteville. In addition to Fort Smith, this state includes Ozark National Forest and Hot Springs. Name this state between Missouri and Louisiana, whose capital is Little Rock.

Answer: Arkansas

4. In 1954, Virgílio Fidalgo [veer-ZHEE-lee-oh fee-DAHL-goh] of Portugal surrendered to this country, allowing this country to gain control over Dadra and Nagar Ha-ve-li. While the Cuban Missile Crisis was unfolding, China attacked this country and gained control over Aksai Chin, with fighting occurring along the McMahon Line. In 1999, this country gained territory in the Kargil War, also known as Operation Vijay. Several historical battles were fought in Panipat in what is now this country, including a defeat of the Maratha Empire and a victory for the Mughal [MOO-gul] emperor Akbar. Name this country that, since it gained independence and was partitioned in 1947, has fought repeatedly against neighboring Pakistan.

Answer: (Republic of) India [or Bharat (Ganarajya)]

5. A concept named for either this person or Orest Khvolson explains why astronomers often see a circle of light around massive objects. Those rings are caused by gravitational lensing, which was predicted by one of this person's theories. One of this person's articles on electron emission explained the equation "energy equals Planck's constant times frequency", while a different article by him — also written in 1905 — described how an object's mass increases as its speed nears the speed of light. Name this scientist who won a Nobel Prize for his explanation of the photoelectric effect, and who developed relativity theory.

Answer: Albert Einstein

**Check the score.**

6. One of this artist's earliest works is a bas [bah] relief showing Mary holding the baby Jesus with his back towards the viewer and a boy on stairs looking over the side in the background. One of his sculptures showing Mary looking down as Jesus seems ready to move away from her is at the Church of Our Lady in Bruges [broozh], Belgium. The church of San Pietro in Vincoli in Rome contains a sculpture of Moses with horns as part of a tomb for Pope Julius II. Name this artist who also made the *Pietà* [pee-ay-TAH] in Saint Peter's and a marble statue showing a man holding a slingshot over his shoulder, *David*.

Answer: Michelangelo (di Lodovico) Buonarroti (Simoni) [accept either underlined name]

7. A girl wearing a dress of this color dances along the Charles River in a poem by Anne Sexton. A person grown to womanhood owns a dress of this color but calls it a "silly gown" in a Dorothy Parker poem. This color is repeated in the title of a poem that describes an object as "newly sprung in June". In another poem, an object of this color is "glazed with rain water beside the white chickens"; that poem also notes that "so much depends upon" the wheelbarrow of this color described by William Carlos Williams. Name this color that is repeated in the title of a Robert Burns poem that states "my love is like a" rose of this color.

Answer: red

8. During the U.S. Civil War, reduced imports of this crop caused a depression in Lancashire, England. Richard Arkwright developed a rotary carding engine to process this crop, which was used in Rhode Island by Samuel Slater. During the 20th century, this crop was almost destroyed in the U.S. by beetles called boll weevils. The value of this crop increased greatly after a machine that removes its seeds was developed by Eli Whitney. Name this fiber that was commonly picked by slaves in the U.S. and that is used to make clothing.

Answer: cotton

9. This person wrote a chapter titled “Positive Suggestions for the Future Regulation of Money”, in which he described a preliminary form of monetarism by calling for changing exchange rates to stabilize prices, in the book *A Tract on Monetary Reform*. This person argued for deferred pay, forced savings, and full employment in *How To Pay For The War*, written at the beginning of World War II. This economist stressed the importance of aggregate demand, writing that government spending could end an economic shock. Name this British economist who wrote *The General Theory of Employment, Interest and Money*.

Answer: John Maynard Keynes [“canes”]

10. This tissue can be formed by a group of growth factors known as its namesake morpho-genetic proteins. This tissue contains structures named for Volkmann and Havers that allow nerves and blood vessels to travel through it. A mutation in the genes coding for type I [1] collagen can result in this tissue becoming brittle. This tissue forms structures that come in long, short, flat, irregular, and sesamoid [SESS-uh-moyd] varieties. This tissue mainly consists of a matrix formed of hydroxy-apatite [“hide-ROCKS”-ee-“appetite”]. Mineral density in this tissue is low in people with osteoporosis. Marrow is typically found inside of this tissue. Name this structural tissue that forms structures such as the patella and femur.

Answer: bone(s)

### Check the score.

11. The title character of this novel reads books that Aristotle would not have understood even if Aristotle were resurrected for that sole purpose, and he sold many acres of corn-land to buy those books. A priest, with assistance from that man’s niece, housekeeper, and barber, burns many of the books in a chapter called “The Inquisition in the Library”. The title character of this novel falls in love with Aldonza Lorenzo without her knowledge, referring to her as Dulcinea [dul-see-NAY-uh], and thinks that he is attacking giants when he attacks windmills. Name this novel whose title character is helped by Sancho Panza, written by Miguel de Cervantes.

Answer: (*The Ingenious Gentleman*) Don Quixote of La Mancha [or (*El ingenioso hidalgo*) don Quijote de la Mancha]

12. Marino Faliero’s [“marine”-oh fah-lee-AIR-oh’z] attempt to consolidate his power over this republic failed, and ended with his beheading. Ludovico Manin [loo-doh-VEE-koh mah-NEEN] was the last ruler of this republic, losing power to Napoleon. Much of the power in this republic belonged to a Council of Forty called the Quarantia [kwar-AHN-tee-ah]. The word “ghetto” comes from the place where Jews lived in this republic. The League of Cambrai fought against this republic until Pope Julius II joined forces with it. Like Genoa [JEN-oh-ah], this republic was led by doges [DOH-juz]. This republic, which is now part of Italy, was the home of Marco Polo. Name this republic, based in what is now a city on the Adriatic Sea, in which most transportation is along canals.

Answer: (Most Serene Republic of) Venice [or (Serenissima Repubblica di) Venezia]

13. This composer wrote a “Barcarole in F-sharp major” for solo piano. Robert Schumann dedicated his *Kreisleriana* [“Chrysl-er”-ee-AH-nah] to this composer, and in return this composer dedicated the second of his four ballades [bah-LAHHDZ] to Schumann. Those solo piano pieces were based on poetry by Adam Mickiewicz [mits-KEE-vich]. Nicknames such as *Waterfall* are applied to this composer’s études [ay-toodz]. He wrote several polonaises and mazurkas, reflecting the fact that he spent the first half of his life in Poland. Name this 19th-century composer who moved to France and who wrote a short piece that is slightly longer than its title suggests, the “Minute Waltz”.

Answer: Frédéric (François) Chopin [fray-day-REEK shoh-PAN] [or Fryderyk Franciszek Szopen]

14. This invention suffered a setback when in May 2016 Joshua Brown died while using one of these things in Williston, Florida. In September 2016 President Obama promoted a 15-point safety checklist for this invention. Tom Alberg, a board member of Amazon, has proposed setting aside space for this invention between Seattle and Vancouver. Sebastian Thrun has led the development of these objects while working for Google, which claims that all but one accident with these objects was caused by people. Name these objects that use sensors and GPS, and which eventually may not include steering wheels.

Answer: driverless cars [accept any answer containing any of the following: self-driving, autonomous, robotic, autopilot, automated; accept vehicles in place of “car(s)”]

15. One character in this play says “’Tis hatch’d and shall be so” when he decides to pretend to be a Latin tutor and have his servant Tranio pretend to be him. In this play, that character pretends to be Cambio, and another man pretends to be Litio. A groom in this play is described as “A very monster in apparel,” “with a linen stock on one leg and a kersey boot-hose on the other.” That groom later makes a bet with two other new grooms about whose wife is the most obedient, and he wins that bet against Lucentio [loo-CHEN-tee-oh] and Hortensio. Name this William Shakespeare play in which Petruchio [peh-TROO-kee-oh] marries Bianca’s sister Katherina [kat-ah-REE-nuh].

Answer: *The Taming of the Shrew*

### Check the score.

16. For a Poisson [pwah-sohn] distribution, this quantity is between the expected value minus the natural log of two and the expected value plus one-third. Chebyshev’s inequality can be used to prove that this value is within one standard deviation of the mean. This value is the most robust common measure of central tendency. This value equals the 50th percentile and the second quartile. It is represented as a segment inside the box on a box-and-whisker plot. Name this value that, if a ranked distribution has an odd number of values, equals the middle value.

Answer: median

17. When General Manuel Piar took on political causes, this person had him arrested and tried, saying “I have spilled my blood” after Piar went to the firing squad. When several officers tried to assassinate this leader, one of his lovers, Manuela Sáenz, helped him escape. This person’s disagreements with his vice president, Francisco de Paula Santander, led him to abolish the office of vice presidency and declare himself dictator. This person was often seconded by Antonio José de Sucre [SOOK-ray]. At one point, this person was simultaneously the leader of Peru, Gran Colombia, and a country named for him. Name this person who was nicknamed “The Liberator”.

Answer: Simón (José Antonio de la Santísima Trinidad) Bolívar (y Palacios Ponte y Blanco)

18. This painter’s *The White Light* is featured on the cover of Ornette Coleman’s album *Free Jazz*. One work by this painter has a very irregular black section going from top to bottom that is surrounded by white with small yellow blotches. This artist of *The Deep* portrayed a black woman with a split eye in *Moon Woman*. This artist stated “I can control the flow of paint: there is no accident”, in contrast to the chaos that many people see in his works such as *Autumn Rhythm*, *Blue Poles*, and *Lavender Mist*. He often chose to name his works by just giving them numbers. Name this abstract expressionist who painted by dripping onto the canvas.

Answer: (Paul) Jackson Pollock

19. One of these events started with the sprinkling of ashes of the furnace, and it prevented magicians from working. Before several of these events, the “heart was hardened” of the person who inspired them. The first of these events caused a horrible smell and the death of fish. The province of Goshen [GOH-shun] was spared from some of these things. Drops of wine are removed from the glass and put on a plate while reciting the list of these events at the Passover Seder [SAY-dur]. The Israelites avoided the last of these events by marking their doors with blood. Name these ten events that included three days of darkness, the Nile turning into blood, and the death of the firstborn, which were done to the Egyptians in the Book of Exodus.

Answer: (ten) (biblical) plagues (of Egypt) [or makot Mitzra’im or makah or makat Mitzra’im]

20. A project of this type called DOS-2 failed in 1972. The Soviet Almaz military program successfully launched three of these objects during the 1970s that were named as though they were part of the Salyut program. The Soviets later launched one of these objects called *Mir* that was assembled in space. The first American-built object of this type, which caused panic when it returned to Earth in 1979, was *Skylab*. The Chinese crafts of this type are part of the *Tiangong* project. The International one of these objects is the largest artificial object orbiting Earth. Name these spacecraft, meant to stay in orbit for a long time, that can hold a crew and dock with other crafts.

Answer: (orbital) space stations [or reconnaissance stations or orbital stations; accept stations after “space”; prompt on spacecrafts]

***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. In one story by this writer, a German soldier named Hans impregnates a French woman named Annette who hates him during World War II. In addition to “The Unconquered”, which appears in *Creatures of Circumstance*, this author wrote a novel in which Isabel Bradley returns home to Chicago after breaking off her engagement in Paris with a veteran who prefers loafing to working. This author wrote about a man who joins Dr. South’s practice when he thinks he has impregnated Sally Athelny. Name this author of *The Razor’s Edge* who wrote about the club-footed Philip Carey in *Of Human Bondage*.

Answer: W(illiam) Somerset Maugham

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

- TB22. This activity is being done by the person in the foreground in John Singer Sargent’s *El Jaleo* [*hah-LAY-oh*]. Two people who performed this activity professionally were Louise Weber — nicknamed “the glutton” — and Jane Avril, both of whom became more popular after they were portrayed by Henri de Toulouse-Lautrec [*awn-ree day too-looz loh-trek*]. Henri Matisse’s paintings named for this activity show five naked women in a circle. A class and a rehearsal for this activity were painted by Edgar Degas [*day-gah*] showing several young women in white. Name this activity that can be performed *en pointe* [*“on point”*] and wearing a tutu.

Answer: dancing [or dance; accept Spanish gypsy dancing before “Weber”; accept can-can dancing between “Louise” and “Matisse’s”; accept ballet after “rehearsal”]

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

- TB23. Stubbs, the mayor of Talkeetna, Alaska, is this type of animal. A group of these animals, including Skimbleshanks and Macavity, was the subject of poems by T. S. Eliot. One of these animals named Tardar Sauce is internationally famous for its grumpy look. In the United Kingdom, one of these animals is sometimes titled Chief Mouser to the Cabinet Office. Name this common type of feline that meows.

Answer: cat

***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.***