

Scobol Solo 2016

Packet 7 (Round 7)



1. This person was upset by attempts to prevent merchants from crossing river fords, which became known as the Drifts Crisis and caused him to encourage an Uitlander [ITE-lahn-dur] uprising; it also led this person's partner, Alfred Beit, to fund a raid against Paul Kruger. That raid led to the Second Matabele [maht-uh-BEE-lee] War, which this person ended after the death of Mlimo [m'LEE-moh]. That raid, the Jameson Raid, also led to the Second Boer War, during which this person helped defend the town of Kimberley. Zimbabwe and Zambia are in what was once a country named for this person. Name this founder of De Beers diamonds, who funded scholarships to Oxford.

Answer: Cecil (John) Rhodes

2. This term describes an absorption spectroscopy that is also known as Doppler-free spectroscopy, and which uses materials whose excited states are equally likely to transition due to stimulated emission and spontaneous emission. This word also refers to a magnetized ferro-magnet if an external field cannot increase the magnet-ization. This term describes organic compounds if their carbon-carbon bonds are all single bonds, and which therefore contains as much hydrogen as possible. Give this word that also refers to a solution in which the solvent has absorbed as much solute as it can.

Answer: saturated or saturation

3. After a man in this play says "It is certain I am loved of all ladies, only you excepted," the woman he speaks to replies "I had rather hear my dog bark at a crow than a man swear he loves me." In this play, ladies are told to "sigh no more" because "men were deceivers ever" in a song sung by Balthasar, the attendant of a prince from Aragon. In this play, comic relief is provided by the night watchman Dogberry, and there is much confusion at a masked ball, including when Don Pedro pretends to be Claudio. Name this Shakespeare play in which Beatrice and Benedick eventually admit they love each other.

Answer: Much Ado About Nothing

4. The name of this composition came from a suggestion from Axel Carpelan, who eventually helped retire the composer's debts. It was sometimes performed under the name *Impromptu*, and performances often focus on the last two sections, starting with *The Great Hostility*. This piece is based on a tone poem that consisted of a prelude and six tableaux, and in turn, the song "Land of the Rising Sun" was based on it. V. A. Koskeniemi [kose-kuh-NEE-mee] wrote different lyrics for this song after the Winter War. Name this piece protesting Russian censorship, a patriotic song written by Jean Sibelius [zhahn sih-BAY-lee-us] for the Helsinki Philharmonic.

Answer: Finlandia (*Hymn*)

5. This person wrote the book *Conservative Victory: Defeating Obama's Radical Agenda*. This person moderated a September 2016 town hall on “core black issues” in Cleveland Heights featuring Donald Trump. A few days after appearing at a Trump-Clinton debate, three women accusing Bill Clinton of inappropriate sexual behavior were interviewed by this person. During the first Trump-Clinton debate, Donald Trump said that he argued privately with this person about the Iraq War. This person now hosts a TV show that he originally co-hosted with Alan Colmes. Name this person whose show airs between *The Kelly File* and *The O'Reilly Factor* on Fox News.

Answer: Sean (Paul) Hannity

Check the score.

6. A theorem about this kind of triangle is the fifth proposition in Euclid's *Elements* and became known as *pons asinorum*, or “bridge of donkeys”, because it was believed to separate intelligent students from simpletons. One way to prove that statement about this kind of triangle is to show that a triangle of this type is congruent to itself with the sides written in a different order, using the “S A S” proposition. According to the Steiner-Lehmus theorem, if two angle bisectors in a triangle are equal, the triangle is of this type. A triangle that is both right and of this type will have sides in a ratio of 1, to 1, to $\sqrt{2}$ [“root 2”]. Name this type of triangle in which two angles are congruent, and two sides are congruent.

Answer: isosceles triangle(s)

7. The Landrum-Griffin act authorizes this Cabinet-level department to oversee certain elections, and was updated by the secretary of this department under George W. Bush. That secretary of this department — the only Bush cabinet member to serve all eight years and the wife of Mitch McConnell — is Elaine Chao. At the beginning of the Wilson presidency, this department was split from the Department of Commerce. Frances Perkins became the first female Cabinet secretary when she led this department. Name this department, headed recently by Thomas Perez, that oversees the Occupational Safety and Health Administration and tracks unemployment.

Answer: Department of Labor [or Labor Department]

8. In this novel, an employer tells his protégé that when lawsuits become boring he will ask for him to receive a good living and nothing more. That employer is a descendant of Boniface, who loved Queen Margot and was beheaded for leading a failed insurrection in the 16th century. In this novel, that employer's daughter and employee both look back fondly at Napoleon, and the employee impregnates her. The title of this novel symbolizes the tension between the priesthood and secular life, and this novel takes place before the July Revolution. Name this novel in which Mathilde de la Mole and Madame de Rênal love Julien Sorel, written by Stendhal.

Answer: *The Red and the Black*(: *A Chronicle of the 19th Century*) [or *Le Rouge et le Noir*(: *Chronique du XIXe siècle*)]

9. This island contains a cemetery in which there is a replica of the Byodo-In Buddhist temple in Japan, called the Valley of the Temples Memorial Park. The north shore of this island includes Sunset Beach, which hosts the O'Neill World Cup of Surfing, and the Banzai Pipeline. This island's National Memorial Cemetery of the Pacific is in its Punchbowl Crater. The southeast end of this island contains a nearly flat volcanic cone called Diamond Head. Its south shore also contains Waikiki Beach. Name this island that is home to Pearl Harbor, the most populous Hawaiian island and the location of Honolulu.

Answer: Oahu [do not accept or prompt on "Hawaii"]

10. A citizen-science project to classify many of these objects was the first Zooniverse project. Gérard de Vaucouleurs [zhair-ar day voh-koo-lyoor] improved the classification of these objects, causing many revisions to the Shapley-Ames catalog of bright types. Edwin Hubble's tuning-fork diagram was used to classify these objects, starting with the labels E0 ["E zero"] through E7 to show development of the elliptical types of these things. Other types of these objects are lenticular, which used to be called irregular, and spiral. Give this term for a system of stars, gas, and dust held together by gravity, such as our Milky Way.

Answer: galaxy/ies

Check the score.

11. In one work by this artist, one title figure has his head down on the red dress of the other title figure, while an old woman holds up a candle and a man in blue cuts the title man's hair. This painter of *Samson and Delilah* showed two men on the ground and three men on horses with their spears pointing towards the center of the painting, which has a crocodile and a hippopotamus. The Cathedral of Our Lady in Antwerp contains his paintings *The Raising of the Cross* and *The Descent from the Cross*. Name this early-17th-century Flemish Baroque painter whose works often include fleshy nudes.

Answer: Peter Paul Rubens

12. The beginning of this time period in is the setting of a James Wright poem set in Martins Ferry, Ohio. During this time, "moonlight gleams through pine tree groves" according to a Wang Wei poem written about one of its evenings on the mountain. Under the moonlight of this time period, "a worm digs silently into the chestnut" in a poem by Matsuo Basho. Percy Bysshe Shelley called the West Wind the "breath of" this time of year's "being". This time of year is called the "season of mists and mellow fruitfulness" in an ode by John Keats. William Blake said that this season is "laden with fruit." Name this season that, according to a Rilke [RIL-kuh] poem, is when "the leaves are falling."

Answer: autumn [accept fall]

13. After this battle, Mago returned home with hundreds of rings from defeated soldiers, and Maharbal said that his commander knew how to win battles but not how to use those victories. The victors started this battle by taking control of the Aufidus ["ow"-FEE-doos] River, which is now called the Ofanto. Lucius Aemilius [ee-MIL-ee-uss] Paullus advised taking a cautious approach in this battle, but he died after his advice was ignored. The result of this battle was similar to the Battle of Lake Trasimene [truh-SIM-ih-nee] that took place a year earlier. Name this major victory for Hannibal over Gaius Ter-en-tius Varro in 216 BCE during the Second Punic War.

Answer: Battle of Cannae ["canny"]

14. In prokaryotes [pro-"CARE"-ee-"oats"], this process can be terminated by an intrinsic mechanism that forms a hairpin or a terminator dependent on rho factor. This process occurs more often in areas containing lightly packed euchromatin [yoo-KROH-muh-tin]. This process typically begins at a promoter site, which is typically near a TATA [TAH-tah] box. In eukaryotes ["you-CARE"-ee-"oats"], this process is followed by splicing and polyadenylation ["POLY"-uh-dee-nuh-LAY-shun]. This process begins with a promoter region being bound to by RNA polymerase [puh-LIM-ur-"ace"]. The products of this process are eventually bound by ribosomes and translated. Name this process of synthesizing mRNA from DNA.

Answer: transcription

15. The city of Ubon Ratchathani holds an annual festival during which these objects are sent to many Buddhist temples in Thailand. During Kwanzaa celebrations, these objects are used to represent the Seven Principles and are placed in a *kinara*. In the Book of Revelation, seven of these objects represent the seven churches. Jews use a braided version of this object to mark the *end* of the Sabbath during Hav-da-lah services. Catholic Holy Saturday services often begin by using the Paschal type of this object, which is large and white. Name these objects that are often used to represent unity during modern wedding ceremonies when the groom and bride jointly light them.

Answer: candles

Check the score.

16. In a novel by this writer, the Germans ban the book *The Man in the High Castle*, which depicts the Allies winning World War II. In a short story by this writer, John Anderton learns that he is going to kill Leopold Kaplan. In one of his novels, Rick Deckard discovers what he thinks is a toad, long after he is hired to destroy objects that lack empathy. Name this author who wrote about a world in which the Axis Powers won World War II in *The Man in the High Castle*, about the Precrime division in "The Minority Report", and about a bounty hunter in post-apocalyptic San Francisco in *Do Androids Dream of Electric Sheep?*

Answer: Philip K(indred) Dick

17. One girl in this opera is criticized for not spinning after a chorus sings “Summ und brumm” [SOOM oont BROOM]. At the end of this opera, a woman who just drowned herself ascends to heaven with the man she swore loyalty to. That woman, Senta, is the daughter of Daland. This opera was written at the same time as *Rienzi* [ree-ENT-see], and was its composer’s first major success before *Tannhäuser* [TAHN-hoy-zur]. The song “Mit Gewitter und Sturm” [meet gay-VEET-tur oont SHTOORM] is sung near the beginning of this opera by a helmsman just before he sleeps. This opera is about a man who once offended Satan, so until he finds a wife he can only reach shore once every seven years. Name this opera about a cursed sailor by Richard Wagner [REEK-hart VOG-ner].

Answer: *The Flying Dutchman* [or *Der fliegende Holländer*]

18. This leader expelled Jews but later established a tolerance tax for Jews who stayed and, thanks to the influence of Abraham Mendel Theben [TAY-ben], stopped forced conversions and pardoned people accused of blood libel. This person’s doctor, Gerard van Swieten [“HAIR”-ard vahn SVEE-ten], reformed the medical system and discredited vampire myths. This leader was able to support an army thanks to reforms instituted by Count Friedrich Wilhelm von Haugwitz [FREED-rik VIL-helm fawn HAOG-vits]. That army kept this ruler in power but lost Silesia to Prussia. She gained power due to the Pragmatic Sanction of 1713, which was passed before she was born. Name this mother of Joseph II and Marie Antoinette, who was the Habsburg ruler of Austria-Hungary.

Answer: Maria Theresa (Walburga Amalia Christina) [prompt on partial answer]

19. This scientist popularized a thought experiment about a perpetual-motion machine that was originally developed by Marian Smoluchowski [smaw-loo-KAWFF-skee] called the Brownian ratchet, and this person explained why it would not work. Working with his doctoral advisor Archibald Wheeler, this person developed a time-symmetric theory of quantum mechanics called absorber theory. This person then used path integrals to develop his version of quantum electrodynamics. This person used straight lines for electrons and wavy lines for photons in his namesake diagrams of particle interactions. Name this physicist who wrote popular autobiographies and made well-known lectures at Caltech.

Answer: Richard Feynman

20. Rollo May defined this condition as “the apprehension cued off by a threat to some value which the individual holds essential to his existence as a self” in his first book, *The Meaning of this concept*. Søren Kierkegaard defined this concept as the “dizziness of freedom” in his book *The Concept of this condition*. Depression and this concept are measured on a scale developed by Max Hamilton and based in part on whether a person suffers insomnia. People with disorders named for this concept often exhibit excessive fear, including phobias, and have panic attacks. Name this feeling that can accompany testing or separation from relatives.

Answer: anxiety [accept anxiousness after “feeling”]

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 one story by this writer, Joe is killed when he confronts his wife's lover Spunk. In another story by this writer, Missie May gets a coin from her lover Otis D. Slemmons that is taken by her husband Joe. This author of "The Gilded Six Bits" wrote a novel about a woman who was called "Alphabet" as a child, and who talks to her friend Pheoby Watson about her marriages to Logan Killicks, Jody Starks, and Tea Cake. This author wrote the autobiography *Dust Tracks on a Road*, and collected African American folklore in *Mules and Men*. Name this author of *Their Eyes Were Watching God*.

Answer: Zora Neale Hurston

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

- ^{TB}22. Andrey Kol·mo·go·rov developed axioms for this field of mathematics. Some of the earliest development of this field occurred when Blaise Pascal and Pierre de Fermat [fehr-mah] wrote letters to each other about the "problem of points". Statistical distributions are named for this field of mathematics that underlies statistics. Bayes' theorem is used when making calculations in the "conditional" branch of this field of math. In this area of math, all values are greater than or equal to 0, and all values in a sample space must add up to 1. Name this field that is concerned with the likelihood of outcomes of problems like playing cards or rolling dice.

Answer: probability [do not accept or prompt on "statistics" or "combinatorics"]

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

- ^{TB}23. This word is the name of the band that made the song "Owner Of A Lonely Heart". This word is used several times by Molly Bloom at the end of *Ulysses*. This word precedes the words "Virginia, there is a Santa Claus", and in a Barack Obama campaign slogan it preceded the words "we can". Give this affirmative word that begins with the letter 'Y' and is the opposite of "no".

Answer: yes

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.