

# Scobol Solo 2020

## Packet 14 (Round 14)



1. A measurement unit named for this concept is used to find the orientation and velocity of an object using accelerometers and sometimes magnetometers ["magnet"-AH-muh-turz]. Objects affected by the Coriolis force move in circles named for this concept. Fictitious forces are often named for this concept because they can be explained either by objects behaving according to this concept or by reference frames not behaving according to this concept. Newton's first law is also called the "law of" this concept. Name this tendency of an object to continue moving at a constant velocity.

Answer: inertia [accept inertial]

2. During this country's 1986 presidential election, evidence was released that one of the candidates had worked for the Nazis in Greece. That candidate, who had been Secretary-General of the United Nations and who won the election, was Kurt Waldheim [VAHLD-hym]. During the 15th century, the city that is now the capital of this country became the residence of the Habsburgs and the effective capital of the Holy Roman Empire. The Anschluss [AHN-shlooss] was the annexation of this country by Germany just before World War II. Name this country that before World War I was part of the Dual Monarchy with Hungary.

Answer: (Republic of) Austria [or (Republik) Österreich]

3. A servant in this novel refers to a man in woman's clothing as a "strumpet" and a "hussy", then cries murder when he sees that he is talking to a man. That servant in this novel is criticized for permitting himself to speak and is named Grimaud [grim-aw]. Shortly before that happens in this novel, Kitty opens a door, allowing the man in woman's clothing to escape after seeing a brand on a woman's shoulder. That brand, which is a fleur-de-lis [lee], helps this novel's protagonists determine that Milady is the ex-wife of Athos. Name this novel by Alexandre Dumas [doo-mah] whose title characters use the motto "All for one, one for all."

Answer: *The Three Musketeers* [or *Les Trois Mousquetaires*]

4. One work by this writer begins by pointing out a shortcoming of the book *Essence of Christianity*. In the 11th and final short note of that work, this writer states "Philosophers have hitherto only interpreted the world in various ways; the point is to change it." This author of those "Theses on Feuerbach [FOY-ur-bahk]" wrote *A Contribution to the Critique of Hegel's [HAY-gull'z] Philosophy of Right*, whose introduction states "Religion is the opium of the people." This person also wrote books describing aspects of capitalism that he predicted would lead to its downfall. Name this writer of *Das Kapital* who worked with Friedrich Engels [freed-rik "angles"] on *The Communist Manifesto*.

Answer: Karl (Heinrich) Marx

5. A four-dimensional version of this general type of solid is formed by connecting each vertex of a cube to a point that is outside the three dimensions of the cube. The number of edges of this general type of solid equals twice the number of edges of its base, and the number of faces is one more than the number of edges of its base. One example of this type of shape is the fewest-faced Platonic solid, the tetra-hedron. These polyhedrons have a volume calculated using the same formula as is used for a cone's volume:  $\frac{1}{3}$  base area times height. Name this class of solids that have a polygon base and triangular other faces that taper to an apex.

Answer: pyramids [accept hyperpyramids before “number of faces”]

***Check the score.***

6. The LUMA [LOO-muh] Foundation hired this architect to design their Arts Resource Center in Vincent van Gogh's hometown, Arles [arl]. Though the building is much shorter, its design is being compared to this architect's 8 Spruce Street in New York City, which is a 76-story residential tower formerly called Beekman Tower. Another work by this architect is next to the Space Needle and used to be called the Experience Music Project, though it is now Seattle's Museum of Pop Culture. Name this architect known for using steel in his designs for performance venues like Walt Disney Concert Hall in Los Angeles and the Jay Pritzker Pavilion in Chicago.

Answer: Frank (Owen) Gehry [or Frank (Owen) Goldberg]

7. One of the casualties of this battle was the man who had tried prosecuting Aaron Burr for treason, Joseph Hamilton Daveiss [“Davis”]. Before this battle was fought, there were attempted negotiations at Vincennes [vin-SENZ]. Those negotiations involved the Treaty of Greenville, which had been agreed to 16 years earlier, after the Battle of Fallen Timbers. This battle destroyed Prophets-town, which was headed by Tenskwatawa [tun-skwuh-tah-way], who was the brother of the Shawnee leader Tecumseh. Identify this battle that took place in what is now Indiana and whose name became part of a presidential campaign slogan for William Henry Harrison.

Answer: Battle of Tippecanoe

8. This city has several major skyscrapers in its International Business Center, including Federation Tower and Oko. The eastern part of this city has a large open area called Izmaylovsky Park. The center of this city has an open square with a stone platform called Lobnoye [“lobe-NO”-yeh] Mesto. That square is near this city's Senate Square and Cathedral Square, the latter of which is faced by the Cathedral of the Dormition. This city is the location of the Bolshoi Theatre, which is within walking distance of St. Basil's Cathedral on Red Square. Name this capital of Russia.

Answer: Moscow, Russia [or Moskva]

9. This role is the primary use of amorphous silica-alumina, though carbon causes it to undergo “poisoning” that lowers the efficiency of these substances. The breaking down of kerogens during petroleum cracking can be done by heat or steam, but sometimes it is done using zeolite [ZEE-oh-“light”] for this purpose. Platinum often plays this role, including in the oxidation of hydro-carbons in cars. These substances usually allow a reaction to have an alternative pathway with a lower activation energy. Name these substances that are not consumed in a reaction but do make the reaction go faster.
- Answer: catalysts [accept catalysis; do not accept “enzyme(s)”]

10. In one novel by this author, Leo asks his wife Lena “What would you think if I tried to invent a Happiness Machine?”. This writer named that novel for a substance that the Spaulding family stores in bottles, with each bottle representing a summer day. In another novel by this author, Beatty asks the protagonist “You got a guilty conscience about something?”. Later in that novel by this author, Beatty orders the protagonist to destroy the protagonist’s house, which the protagonist does before killing Beatty with a flamethrower. That novel is named for the temperature that paper catches fire at. Name this author of *Dandelion Wine* and *Fahrenheit 451*.
- Answer: Ray(mond Douglas) Bradbury

***Check the score.***

11. Peleg Wadsworth and William Todd accused this person of disobeying orders, leading this person to ask for a court-martial after the failed Penobscot [pen-AHB-skaht] Expedition. This person’s most famous act was done with William Dawes and Samuel Prescott based on intelligence from Joseph Warren, and this person’s famous instructions were given to Robert Newman. This person was stopped by patrols, but Prescott made it to Concord. The instructions for Newman were to go to the steeple of the Old North Church and hang two lanterns. Name this silversmith whose acts were described in Henry Wadsworth Longfellow’s poem about his “Ride”.
- Answer: Paul Revere
12. Just before moving to the United States, Antonín Dvorak [d’-VOR-zhahk] wrote a series of three pieces of this type that were collectively called “Nature, Life, and Love”, and of which the *Carnival* has been the most popular. In 1880, Johannes Brahms wrote two pieces of this type, saying “one laughs while the other cries”. Those two pieces are called *Tragic* and *Academic Festival*. Another piece of this type was written to commemorate Russia’s defense against Napoleon. That piece, which uses cannons, is often played on July 4. Name this type of piece such as Pyotr Tchaikovsky’s *1812*.
- Answer: overtures

13. These objects contain alpha granules and dense granules. If people have too few of these objects or if these objects are not working properly, people get marks on the skin called purpura [PUR-pyur-uh]. These objects do not work properly in people who have von Willebrand [VIL-uh-brawnt] disease. When these objects are activated, they cause the conversion of fibrin-ogen [fy-BRIN-oh-jen] into fibrin [FY-brin]. These objects are fragments of mega-karyo-cytes [“mega-CARRY-oh-sites”], which means that they’re not classified as cells. Name these objects in blood that aggregate together during coagulation to form clots.

Answer: blood platelets [or thrombocytes]

14. One of this person’s sons, who shared his name, was raised with Manaen [MAY-nay-un] and was referred to in the Bible as “the tetrarch”. Another one of this person’s sons, who also shared his name, “stretched forth his hands to vex certain of the church” and “killed James the brother of John with the sword”. This person was troubled when he heard wise men ask “Where is he that is born King of the Jews?”. When this person was mocked by the wise men, he put out an order to kill every child under the age of two in Bethlehem. Name this king of Judea [joo-DEE-uh] when Jesus was born.

Answer: Herod the Great [or Herod I]

15. A work by this poet begins “When I had journeyed half of our life’s way, I found myself within a shadowed forest, for I had lost the path that does not stray.” This poet then claims he is asked “Why dost thou not climb the delectable mountain?” by a famous poet who sees him. Later on, this poet describes himself being led through places that represent Prudence, Fortitude, Justice, Temperance, Faith, Hope, and Love by a woman named Beatrice. Name this Italian poet who described a sign saying “Abandon All Hope, Ye Who Enter Here” in the *Inferno* section of his *Divine Comedy*.

Answer: Dante Alighieri [accept either]

**Check the score.**

16. One artist in this movement painted her sister Edma looking down at her sleeping baby, who is covered in white. That painter, who for a time rejected this movement, was Berthe Morisot [bairt maw-ree-zoh]. Another member of this movement portrayed a man rowing a boat, with a woman holding her baby, in *The Boating Party*. Japanese art would later inspire that painter in this movement to create *The Child’s Bath*. The painting that inspired the name of this movement shows a small boat on the water early in the morning. Name this late-19th-century art movement of which Mary Cassatt and Claude Monet were part.

Answer: impressionism or impressionist movement

17. During the early 20th century, Robert Koldewey [KOL-duh-vy] excavated this city. This city was purposely destroyed after Ashur-nadin-shumi, who was the son of Sennacherib [suh-NAK-uh-rib], died there. One of the places in this city was supposedly built by the legendary queen Semiramis [sih-MIR-uh-miss], though it was more likely built for Queen Amytis [AM-ih-tiss]. When King Jeconiah [juh-KOH-nee-uh] of Judah was dethroned, many Jews were exiled by force to this city. The Amorite [AM-oh-“rite”] king Hammurabi turned this location into a major city. This former capital of Mesopotamia is south of Baghdad. Name this city that contained Nebuchadnezzar II’s Hanging Gardens.

Answer: Babylon [or Bab-ilu or Bab-ilim or Babel; do not accept “Babylonia”]

18. This place has an anti-center that is located near Elnath and in Auriga [aw-“RYE”-guh]. This location has a Sagittarius Arm and an Orion Arm. The center of this place is considered to be the Sagittarius A-Star supermassive black hole. The Sagittarius dwarf elliptical galaxy is definitely orbiting around outside of this object, and there is some debate as to whether or not the Large and Small Magellanic [maj-uh-LAN-ik] Clouds are also orbiting it. Like Andromeda, this place is the center of a Local Group cluster. Name this galaxy that we live in.

Answer: Milky Way galaxy [prompt on galaxy]

19. In one novel by this author, the title character’s earliest memory of a friend is at a party where “She sat on the floor with her arms round her knees, smoking a cigarette.” That friend, who eventually married Lord Rosseter after once kissing this author’s female title character, is Sally Seton. In another novel by this author, one of the characters is able to find a fiancé for Minta Doyle but cannot convince the painter Lily Briscoe to get married. This author, who set that novel on the Isle of Skye, used the stream-of-consciousness technique in her writing. Name this English author of *Mrs. Dalloway* and *To the Lighthouse*.

Answer: (Adeline) Virginia (Stephen) Woolf [accept either underlined name]

20. This person’s research led to therapies to treat Wegener’s granulomatosis [VEG-uh-nur’z GRAN-yoo-loh-muh-TO] and poly-arteritis nodosa [pah-lee-AR-tuh-RY-tiss noh-DOH-sah], and one of his longtime leadership positions was over the Laboratory of Immuno-regulation. After a trip to Uganda with Tommy Thompson in 2002, this person designed the PEPFAR program through which the U.S. government addressed the global AIDS pandemic. During the past year, this person has worked alongside Deborah Birx on an advisory board headed by Vice President Mike Pence. Name this infectious disease expert who has been a leader during the COVID-19 pandemic.

Answer: Anthony (Stephen) Fauci [FOW-chee]

***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.***

<sup>TB</sup>21. This character carried several books—including “The Origin of Tree Worship”—shortly before claiming to own a little bookshop in “The Adventure of the Empty House”. In that story, this character states that he faked his own death in “The Final Problem”. In that earlier story, this person had left a note before going to the top of Reichenbach [RYK-en-bahk] Falls to fight his enemy, Professor Moriarty. In the first novel featuring this character, he determines that Hope killed Drebber and Stangerson. Name this protagonist of *A Study in Scarlet* who is a friend of Dr. Watson and who is a detective created by Arthur Conan Doyle.

Answer: Sherlock Holmes [accept either]

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

<sup>TB</sup>22. The uplift of these objects is carefully measured using tilt-meters, and that data is combined with measurements of magnetic fields and gas releases by the United States Geological Survey. Mudflows from these objects are called lahars [LAH-hahrz]. These objects often have a caldera near the top, a hollow area usually formed like a sinkhole. These objects can be classified as composite or shield depending on their steepness, and these objects can also be classified as active, dormant, or extinct. Name these objects, many of which exist around the Pacific Ring of Fire, which spew lava.

Answer: volcanos

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

<sup>TB</sup>23. This country has towns named “Scratch Ankle”, “Toad Suck”, and “Chicken Bristle” as well as lakes named “Bull Shoals Lake”, “Naknek Lake”, and the “Salton Sea”, which actually is a lake. This country is the third-most populous in the world, at about 330 million. This country controls the Palmyra Atoll, the Northern Mariana Islands, Guam, parts of Samoa and the Virgin Islands, and Puerto Rico. Name this country that has 50 states, including Maine and California.

Answer: United States of America or U.S.A. [accept any underlined portion]

***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.***