

Scobol Solo 2021

Packet 13 (Round 13)

1. This person received his top military promotion after successfully planning Operation Iskra, but he was then unable to encircle enemy forces during Operation Polar Star. Dwight Eisenhower looked this person over for a long time before saying “So that’s what you’re like.” This leader paused after he led the Vistula–Oder Offensive. After working with Ivan Konev [KOH-neff] on that victory, this person then competed against him in the Race to Berlin. This person accepted the surrender by Helmuth Weidling [HEL-moot “VIED”-leeng] in Berlin two days after the suicide of Adolf Hitler. Name this Soviet military leader during World War II.

Answer: Georgy (Konstantinovich) Zhukov

2. This operation distributes over the symmetric difference operation. The relative complement of A in B is the same thing as this operation performed on B and the complement of A . The identity for this operation is the universal set. This operation has many properties analogous to the conjunction operation in logic, which makes it similar to the word “and”. In a Venn diagram with two circles, this operation gives the overlapping region. Name this operation on sets that is more restrictive than the union operation.

Answer: intersection [prompt on and before “conjunction”]

3. A historically important decision made during the 14th century in this river is called the Wihwado [wee-WAH-doh] Retreat because it took place at Wihwado Island. Hwang-gump-yong used to be an island in this river but is now connected to the shore. This river forms part of the same international border as the Tumen [TOO-mun] River, which is easier to cross than this river. This river has formed that border for over a thousand years. This river empties into a bay in the northeast corner of the Yellow Sea at the city of Dandong [dan-DAWNG]. Name this river that separates China and North Korea.

Answer: Yalu River [or Amrok River or Amnok River]

4. The last part of this multi-section composition, which includes “Blanziflor et Helena” and “Tempus est iocundum [ee-oh-KOON-doom]”, is “Cour d’amours” [kor dah-mor]. That part follows “In Taberna” and “Uf dem anger” in this composition, whose text is 11th- or 12th-century Latin and German poetry that was stored in a monastery in Bavaria. The best-known motif in this composition is a whole note followed by three half notes and includes the line “Velut [veh-LOOT] luna”. This composition begins and ends with an ode to the Empress of the World, which is the Roman goddess of luck. Name this 1936 cantata by Carl Orff that contains “O Fortuna”.

Answer: *Carmina Burana* (: *Cantiones profanae cantoribus et choris cantandae comitantibus instrumentis atque imaginibus magicis*)

5. A short story collection by this author now begins with an essay in which he describes a fight in which his side used a cinder barrage but was met by a bombardment of broken bottles. That essay is “The Ethics of Living Jim Crow”. A novel by this author begins with the protagonist killing a rat with an iron skillet. That protagonist created by this author gets a job as a chauffeur, but accidentally suffocates the young woman he is supposed to drive. Name this author of *Uncle Tom’s Children* who wrote about Bigger Thomas in his novel *Native Son*.

Answer: Richard (Nathaniel) Wright

Check the score.

6. Democratic reforms in this country were supported by the 1988 October Riots, which were critical of President Chadli Bendjedid [ben-juh-DEED]. This country’s 1991 elections were cancelled to prevent the Islamic Salvation Front from defeating the National Liberation Front, leading to a brutal civil war that ended with Abdelaziz Bouteflika [ab-del-uh-ZEEZ BOO-tuh-flee-kuh] in power. This country’s earlier presidents were Houari Boumédiène [wah-ree boo-med-ee-en] and Ahmed Ben Bella. The Évian Accords granted this country independence from France after this country arranged a ceasefire with Charles de Gaulle [sharl deh gohl]. Name this country in north Africa between Morocco and Libya.

Answer: (People’s Democratic Republic of) Algeria [or al-Jumhuriyya al-Jaza’iriyya ad-Dimuqratiyya as-Sa’biyya]

7. The combination of potassium and this ion are used to test for the presence of *Candida albicans* [KAN-dih-duh AL-bih-kanz] yeast. This ion is combined with sodium after sodium is separated from chloride in the chlor-alkali process. This ion is combined with lithium or used in soda lime to remove carbon dioxide from enclosed spaces such as submarines and spacecraft. Potassium combines with this ion to create caustic potash, which is used in soft soaps, and sodium combines with this ion to create lye. An Arrhenius [uh-REE-nee-us] base increases the concentration of this ion. Name this ion whose charge is -1 and which consists of an oxygen atom and a hydrogen atom.

Answer: hydroxide ion [accept hydroxyl; prompt on OH⁻]

8. In September 2021, this leader signed a law allowing for vaccine and medication patents to be broken in a public emergency, but he vetoed the part demanding the transfer of raw materials. This leader is accused of supporting a so-called “cabinet of hate” that spreads COVID misinformation. This national leader faces a 2022 re-election campaign against Eduardo Leite [LAY-tay], a governor who recently came out as gay, and the possible return of Luiz Inácio Lula da Silva. This leader has been heavily criticized for allowing massive deforestation. Name this leader who in 2018 was elected to succeed Michel Temer [mee-shel TEH-meer] as the president of Brazil.

Answer: Jair (Messias) Bolsonaro [zhah-EER boh-soh-NAH-roo]

9. This poet wrote the lines “A world of made is not a world of born—pity poor flesh.” Those words are in a poem by this writer that also states “Progress is a comfortable disease.” Another poem by this writer ends with the line “And death i think is no parenthesis.” This author of “since feeling is first” and “pity this busy monster, manunkind” listed the four seasons in three different orders in another poem that ends with the line “sun moon stars rain”. Name this poet who wrote “anyone lived in a pretty how town” and who rarely used capital letters.

Answer: E(dward) E(stlin) Cummings

10. During the two years spent writing this piece, the composer told his wife Lily he was leaving her, she attempted suicide, and he impregnated Emma Bardac. The 1905 premiere of this piece was a failure, but it became popular when the composer conducted it a few years later. This piece may have been inspired by the composer’s childhood vacations to Cannes [kan]. The name of the first section of this piece is “From dawn to noon on” the title location, and the second section is “Play of the Waves”. Name these three symphonic sketches for orchestra written by Claude Debussy [deb-yoo-see].

Answer: *La mer*(, *trois esquisses symphoniques pour orchestre*) [accept *The sea*(, *three symphonic sketches for orchestra*)]

Check the score.

11. One method for this process will become economical when laser-driven muon [MYOO-ahn] generators are used in the muon-catalyzed type of this process. Two common approaches used to cause this process are magnetic confinement and inertial confinement, the latter of which is used on a pellet that contains a mixture of deuterium [doo-TEER-ee-um] and tritium [TRIT-ee-um]. This process is also the net result of the CNO cycle that takes place in many stars. Though this process was not used in the atomic bombs used in World War II, it is used in hydrogen bombs. Name this process in which atomic nuclei are combined.

Answer: (thermonuclear) fusion [prompt on nuclear reaction; do not accept “fission”]

12. Because of a controversy when this person became emperor, Acilius Attianus [uh-SIL-yuss at-YAH-nus] ordered the executions of four senators. The letter stating that this person should become emperor was signed by his predecessor’s wife Plotina [ploh-TEE-nuh]. Later in this emperor’s reign, a rumor that he would build a temple to Jupiter on the Temple Mount led to the Bar Kokhba [KOHK-bah] revolt. This emperor served between Trajan and Antoninus [an-toh-NEE-nus] Pius, making him the third of the Five Good Emperors. Name this Roman Emperor who in 122 CE strengthened a border with Caledonia when he visited Britain and ordered the building of his namesake wall.

Answer: Hadrian [accept Caesar Traianus Hadrianus; do not prompt on “Caesar” or “Trajan”]

13. This person contrasted both awareness of the whole universe and focus on a single object with deficiency-cognition. This person described the positive traits of being-cognition in the book *The Farther Reaches of Human Nature*. This person's best-known concept was first described in the paper "A Theory of Human Motivation" and developed in the book *Motivation and Personality*. This person divided esteem needs into respect from others and self-respect, and he placed those needs above love needs, which were in turn above safety and physiological needs. Name this psychologist who used a pyramid to symbolize his hierarchy of needs.

Answer: Abraham (Harold) Maslow [accept Maslow's hierarchy of needs]

14. In one novel by this author, the protagonist gets stuck in some mud by a river and worries that a dead body is grabbing his foot. This author portrayed that protagonist having political disagreements with his girlfriend Antonia and his son Terry. This author portrayed Jacobus [yuh-KOH-buss] both finding the dead body and eventually arranging a proper burial. In another novel by this author, the protagonist Rosa is the daughter of Communists who died in prison. That novel depicts anti-apartheid activists. Name this South African author of *The Conservationist* and *Burger's Daughter*.

Answer: Nadine Gordimer

15. The immune system contains cells named for resembling this *part of* a cell, of which the Langerhans cells in the skin are an example. Depending on where this cell part emerges from a pyramid cell, it can be classified as apical [AY-pih-kul] or basal. Bi-polar cells only have one of this part, while multi-polar cells have many. Unlike their counterparts, these cell parts near the soma are *not* surrounded by Schwann cells. These cell parts contain the receptors at synapses. Name these branched parts of neurons that communicate with the axons of other neurons.

Answer: dendrites [DEND-"right"s] [or dendrons; prompt on dendritic cells]

Check the score.

16. Elizabeth Arden commissioned this painter to depict jimson weed, which led to this painter creating a large painting depicting four white blossoms. Views from airplanes inspired this painter's *Sky Above Clouds* series. Another painting by this artist shows a large wooden ladder floating in a turquoise sky above the Pedernal Mountains and beneath a white half-moon. Those mountains were near this artist's home, Ghost Ranch, in New Mexico. Name this artist who often painted irises and cow skulls.

Answer: Georgia (Totto) O'Keeffe

17. Benjamin Franklin called the original version of this law a “mere requisition” that Pennsylvania had complied with but New York had not. The version of this law that was part of the Intolerable Acts was an update on the 1765 version of this law requested by Thomas Gage. Contrary to popular belief, these laws applied to unoccupied buildings. The Third Amendment of the U.S. Constitution can be seen as a reaction to these laws. Name these laws passed by Great Britain that required the colonies to find a place for troops to live.

Answer: Quartering Acts

18. One character in this play states “I pray you do not fall in love with me, for I am falser than vows made in wine; besides, I like you not.” That statement is made to Phoebe, who rejects the love of Silvius in this play and instead falls in love with Ganymede [GAN-ih-meed]. One speech in this play contains the line “And one man in his time plays many parts, his acts being seven ages.” That speech—delivered by Jaques [JAY-kwiz] in the Forest of Arden—begins “All the world’s a stage, and all the men and women merely players.” Name this William Shakespeare play that ends with several marriages, one of which is between Orlando and Rosalind [RAH-suh-lind].

Answer: As You Like It

19. A telescope named for this thing was used to create the first image of a black hole in 2019. That telescope studied Sagittarius A [“A-star”] and the super-massive black hole in Messier [mess-yay] 87. This thing is just inside of the ergo-sphere, where a theoretical object could be split as part of the Penrose process, after which one part of that theoretical object would cross this thing. This thing is located where the escape speed equals the speed of light. If there is no rotation, the Schwarzschild [shvarts-“child”] radius is the distance from the center of a black hole to this thing. Name this boundary of a black hole.

Answer: event horizon

20. This city contains the cemetery where Es’ad bin Zurarah and Ruqayyah were buried, which is the Jannat Al-Baqi’. A failed siege against this city led by Abu Sufyan is now called the Battle of the Trench. This city contains the Green Dome over the tomb of Muhammad. Before Muhammad died, this city was known as Yathrib. In this city, Muhammad learned to face Mecca rather than Jerusalem when he prayed. The journey from Mecca to this city by Muhammad is called the *hejira*. Name this second-holiest city in Islam, behind Mecca and ahead of Jerusalem.

Answer: Medina, Saudi Arabia [accept Yathrib before it is mentioned]

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 play by this writer, a newspaper claims that an eight-year-old girl killed a cat, but the characters believe it was her 11-year-old brother. In that play, this writer describes the two characters finding an envelope that has been slid under a door and contains 12 matches. In another play by this writer, one of the characters receives a toy drum in a package brought by Lulu. That play takes place in a boarding house run by Meg and Petey Boles that is visited by McCann and Goldberg. Name this English playwright of *The Dumb Waiter* and *The Birthday Party*.

Answer: Harold Pinter

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

TB22. This location has six paintings showing the life of Moses, including *The Crossing of the Red Sea* and *The Descent from Mount Sinai*, both of which were worked on by Cosimo Rosselli. A series of nine panels in this location starts with *Separation of Light from Darkness* and ends with *The Drunkenness of Noah*. The fifth painting in that series shows Eve with both hands together facing God. Another panel in this location shows God reaching his finger towards the hand of the newly created Adam. Name this location within the Vatican whose ceiling was painted by Michelangelo.

Answer: Sistine Chapel or Cappella Sistina [do not accept answers that mention the ceiling; prompt on Vatican City or the Holy See or Rome]

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

TB23. This letter or ‘D’ is used to classify all amino acids except glycine [GLY-seen] because they are stereo-isomers. This letter is the middle initial of the star of *Snakes on a Plane*. The Greek letter that makes the same sound as this letter is used to represent eigenvalues [“EYE-gun-values”]. This letter is often used to represent inductance, angular momentum, and the azimuthal [az-ih-MOO-thul] quantum number. This letter represents 50 in Roman numerals. Name this letter between ‘K’ and ‘M’.

Answer: L

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.