

New Trier Scobol Solo 2013

Round 9



1. On the holiday that ends this event, a third of a slaughtered animal's meat is donated to the poor. A sheep is sacrificed after the ritual shaving of one's hair in an optional variant on this event. Male participants don two white sheets of cloth to prepare for this event. In one of its rituals, adherents throw stones at three walls and rapidly walk back and forth between two hills. The Feast of Sacrifice, or Eid al-Adha, ends this event, during which participants make seven counter-clockwise trips around the Kaaba. Name this pillar of Islam which requires Muslims to make a pilgrimage to Mecca.

Answer: **Hajj** [prompt on **pilgrimage** to Mecca or **Eid al-Adha**; do not accept "hijra" or "hejira"]

2. Based on the lengths of these structures, some cells are classified as Golgi One or Golgi Two. The *A delta* and polymodal *C* types of these structures transmit signals from nociceptors. A lack of protection for these structures can cause Guillain-Barré syndrome. This part of some cells has branches called telodendria. Much of this structure is surrounded by cells that produce an insulating material, and the gaps where this structure is not surrounded are called the nodes of Ranvier [ran-vee-ay]. The other parts are protected by Schwann cells that produce myelin. Name these extensions from nerve cells that send signals to dendrites.

Answer: **axons** [prompt on nerve **fibers**; do not prompt on "nerve cells" or "neurons"]

3. This song is used as the subtitle for the album *Ella in Berlin*. This song mentions Louie Miller and Jenny Diver, and it is loosely based on the life of Jack Sheppard. Sung by a very minor character to open an opera about the husband of Polly Peachum, its first verse compares white shark teeth to red billows of blood. This song, which was originally in German, was popularized in America by Bobby Darin and Louis Armstrong, and it was composed by Kurt Weill ["vile"]. Name this song with lyrics by Bertolt Brecht that was written for *The Threepenny Opera* to introduce the criminal Macheath.

Answer: **"Mack the Knife"**

4. An article sometimes called a manifesto for this school of scientists stated that they recognize no dividing line between man and brute. That work encouraging this school of scientists was written by a person whose two goals were prediction and control, and who conducted the Little Albert experiment. Noam Chomsky criticized this group, supporting cognitive psychology instead of operant conditioning. In addition to John B. Watson, another prominent supporter of this approach who wrote *Beyond Freedom and Dignity* and *Walden Two* was B. F. Skinner. Name these psychologists who focused on reactions to rewards and punishments.

Answer: **behaviorists** [or **behaviorism** or **behavioral** psychology]

5. A coup in this country in 1936 led to a four-year period called the 4 August Regime, and a coup just before 1967 elections in this country led to a seven-year period known as the Regime of the Colonels. A major step towards this country's independence took place at the Battle of Navarino in 1827, where several European powers defeated the combined forces of Egypt and the Ottoman Empire. This country's actions in 1974 gave Turkey an excuse to invade Cyprus. Its current leader, Antonis Samaras, recovered from a controversy over relations with this country's neighbor Macedonia. Name this country that officially calls itself the Hellenic Republic.

Answer: Greece [accept Hellas or Hellenic Republic before "Hellenic"]

6. In one scene in this novel, the protagonist holds onto a cow's tail in order to escape a flood. One character in this work buys 200 acres of land in a town that originally only contained 50 acres. That character, Jody, later forbids his wife from giving a speech at the opening of his store and later beats her for mis-cutting a piece of tobacco. Phoeby Watson welcomes the protagonist of this work when she returns to Eatonville from the Everglades after shooting her rabies-afflicted husband, Tea Cake. Identify this novel about the thrice-married Janie Crawford, a work of Zora Neale Hurston.

Answer: *Their Eyes Were Watching God*

7. This politician developed a political machine called the Albany Regency that was opposed by William Seward. Andrew Jackson tried to appoint this person as Minister to Great Britain, but that appointment was cancelled by Vice President John Calhoun, who broke a tie vote in the Senate. Before that, this person was Jackson's secretary of state, and he later became Jackson's vice president. In 1848, he ran for president on the Free Soil Party ticket. Name this president whose popularity was weakened by the Panic of 1837, and who lost his re-election bid to William Henry Harrison.

Answer: Martin Van Buren [do not accept "Buren"]

8. One character in this play tells a prince "To be your fellow you may deny me, but I'll be your servant whether you will or no." Those two characters are found later playing chess. This play ends with the protagonist speaking an epilogue to the audience that concludes "Let your indulgence set me free." Another character appears as a harpy to the "three men of sin" after he has been trapped in a tree. In this play, Stephano and Caliban attempt to overthrow the protagonist. Name this play in which Ferdinand and Miranda fall in love, a work by William Shakespeare in which Prospero conjures the title storm.

Answer: *The* *Tempest*

9. A piece of equipment often used in this process is similar to an Erlenmeyer flask but with an opening for a tube at the top allowing for the connection of a suction device. That object is named for Ernst Büchner, as is the funnel that typically is placed on top of that flask during this process. Methods for performing this process are classified as volume or surface, the latter of which often uses semi-permeable paper that can be rated for porosity. This process often is used to purify air or water, and a simple device for performing this process is a sieve. Name this process of removing solid objects from gases and liquids.

Answer: filtering [or filtration]

10. This painting is headlining exhibitions in the United States this year while the Mauritshuis [MAWR-its-hoyss] Gallery is renovated. This work is often contrasted with *Portrait of a Young Woman*, which was created by the same artist a year or two later in 1667. The person shown in this painting wears a yellow ochre garment with a white collar. Powdered lapis lazuli was used for the bright color in the Turkish-style turban worn by the subject of this work. The object mentioned in the title of this painting is surrounded by dark shadow and located above the left shoulder the girl looks over. Name this portrait by Dutch artist Johannes [yoh-HAH-nuss] Vermeer.

Answer: *The Girl With The Pearl Earring* [or *Het Meisje met de Parel*]

11. One of this writer's characters takes salt each night to forget her husband's stories. That work, involving an invisible Emperor and an actual Orator, centers around the characters Old Man and Old Woman. Another work by this writer is about the Smiths and the Martins, who are eventually joined by the fire chief. Another play by this man includes an argument between Dudard and Botard at the newspaper office where Daisy and Berenger [bair-en-zhair] work. In that work, several people turn into the title animal. Name this Romanian-French absurdist playwright who wrote *The Chairs*, *The Bald Soprano*, and *Rhinoceros*.

Answer: Eugène Ionesco [or Eugen Ionescu]

12. The current leader of this country claims that an assassination attempt against her in 2004 was planned by her opponent Khaleda Zia, and she claims that Zia is protecting the killers of Sheikh Mujibur Rahman. The Irish company Primark has been criticized because of working conditions in this country. A 2012 fire at a Tazreen Fashion factory in this country killed 100 workers, and the April 2013 Rana Plaza collapse in this country's town of Savar killed over one thousand workers. Name this country which consists of the region formerly known as East Pakistan, a nation currently headed by the Awami League's Sheikh Hasina from its capital of Dhaka.

Answer: (People's Republic of) Bangladesh

13. One theorem named after this person states which prime numbers can be expressed as the sum of two perfect squares. A letter from this person to Torricelli explained how to find a point that is a minimum total distance from three fixed points. Another of his theorems was proven by applying the epsilon conjecture, now known as Ribet's theorem, which demonstrated that the Taniyama-Shimura conjecture implied that that theorem was true. Name this mathematician whose statement that $a^n + b^n$ ["a to the n plus b to the n"] cannot equal c^n ["c to the n"] for an integer n greater than two was proven by Andrew Wiles and is known as his last "theorem".

Answer: Pierre (de) **Fermat** [fair-mah]

14. The narrator of this poem describes how he was once "like a man / Flying from something that he dreads, than one who sought the thing he loved". The narrator of this poem says to another person that "thy memory be as a dwelling place" and "thy mind / Shall be a mansion". The narrator describes "when I again repose / here" after "Five years have passed" and the "Steep woods and lofty cliffs" of the title location have become "More dear". This work is set on July 13, 1798. Name this final poem in *Lyrical Ballads* about revisiting the title location near the river Wye with his sister, written by William Wordsworth.

Answer: "Lines Composed a Few Miles above **Tintern Abbey** (on Revisiting the Banks of the Wye during a Tour, July 13, 1798)" [prompt on **Lines**]

15. One of these organic molecules forms a coordination complex with platinum in Zeise's [rhymes with "mice's"] salt, and peroxyacids are used to convert this class of compounds to epoxides [ee-PAHK-"sides"]. The addition of halogens to these compounds is described by Markovnikov's rule. Natural rubber is a polymer of one of these molecules, which show sp^2 [S P "two"] hybridization and whose substituent positions are described with *cis-trans* notation. These compounds are found in unsaturated fats like vegetable oils, and simple examples have twice as many hydrogen atoms as carbon atoms. Name this group of organic compounds with at least one carbon-carbon double bond.

Answer: **alkenes** [or **olefins**; prompt on **hydrocarbons**; do not accept "alkane(s)" or "alkyne(s)"]

16. Andrew Cairns claimed that men, women, and children were left to die so that the first one of these would succeed on paper, but the completion of the Belomor Canal was used to claim it was successful. Even though these schemes are no longer made in their original country, they are still passed in India, Vietnam, and China. The second one of these in China became intertwined with the Great Leap Forward, which was cancelled after three years due to famine. Name this system started by Stalin and instituted in several Communist countries to coordinate central planning for half a decade.

Answer: **Five-Year Plans** [accept **Pyatiletka**; accept answers additionally mentioning the Soviet Union or any country/ies mentioned in the question]

17. The northeast part of this lake features Eden Isle, which is near the town of Slidell. Its southern shore features the towns of Gentilly, Kenner, and Metairie, and its northern shore is the site of Fontainebleau State Park. The eastern end of this lake is crossed by the Chef Menteur Highway, which is close to where the Rigolets connect it to Lake Borgne, which in turn takes its water to Chandeleur Sound and the Gulf of Mexico. The Bonnet Carré Spillway diverts Mississippi River floodwaters to this lake, which is home to many pelicans. Name this lake that surged over its levees in 2005 during Hurricane Katrina, flooding the city of New Orleans.

Answer: Lake **Pontchartrain**

18. This composer wrote a duet for violin and guitar called *Le Cantabile* [kahn-tah-BEE-lay], and he names an intermezzo in Schumann's *Carnaval*. Liszt wrote six grand études [ay-toodz] based on the work of this composer, including *La Campanella*. When this person acquired a Stradivarius viola, he encouraged Berlioz to compose *Harold in Italy*. Two pieces in a set of works by him are nicknamed "The Hunt" and "The Devil's Chuckle", and Rachmaninoff composed a *Rhapsody on a Theme* of this man. His most famous work is a set of 24 pieces for violin. Name this violin virtuoso and composer of the *24 Caprices* [kuh-PREES-es].

Answer: Niccolò **Paganini**

19. The cooling named for this effect is a type of laser cooling that impacts particles within a certain range of speeds. A profile named for this effect is used to find the temperature of a gas based on the way that this effect broadens spectral lines. The transverse type of this effect is explained by the time dilation of special relativity and was confirmed by the Ives-Stilwell experiment. Astronomical measures of this effect led to the development of Hubble's Law and the belief that the universe is expanding. Name this change of frequencies such as redshifts and blueshifts caused by relative velocities between a source and observer.

Answer: **Doppler** effect [accept **Doppler** shift or equivalents, prompt on "redshift" or "blueshift"]

20. This leader joined forces with Harpagus to capture the city of Ecbatana after leading a revolt against the Median king Astyages [as-TY-uh-jeez]. This leader also lowered the water level of the Euphrates River to conquer King Nabonidus. In an earlier campaign, this leader used a corps of smelly camels to scatter enemy cavalry, defeating Croesus [KREE-suss] of Lydia at the Siege of Sardis. That battle came soon after this man's victory at Thymbra and a few years before this leader ended the Babylonian Captivity. Name this "great" ruler from the sixth century BCE who extended the Achaemenid Empire, also known as the Persian Empire.

Answer: **Cyrus the Great** [or **Cyrus II** or **Cyrus the Elder**; prompt on **Cyrus** before "this 'great' ruler" and accept it alone thereafter]

TB. One story in a collection by this author is “The Road From Colonus”, and in one work by this author, the protagonist travels to Tuscany with her friend Caroline Abbot. This author of *Where Angels Fear to Tread* and *The Celestial Omnibus* also wrote a novel that follows the Bast and Wilcox families. In another novel by this author, Cyril Fielding doesn’t believe that Dr. Aziz raped Adela Quested in the Marabar Caves. Name this author of *Howard’s End* and *A Passage to India*.

Answer: E(dward) M(organ) **Forster**

TB. This country used to include the town of Vilarinho [vee-lah-REEN-yoh] da Furna, which was submerged to build a reservoir. That town is in this country’s only national park, Peneda-Gerês [PAY-nay-dah ZHAIR-ayss]. That park is in the northern part of this country, which includes the city of Braga. The southern part of this country, its Algarve region, includes the city of Faro. While most of this country is on continental Europe, it also controls the archipelagos of Madeira and the Azores. This country includes the mouth of the Tagus River. Name this country with its capital at Lisbon, which shares the Iberian Peninsula with Spain.

Answer: **Portugal** [or **Portuguese** Republic]

TB. Identify the color that names England’s Nine Days’ Queen who preceded Mary Tudor, marks the uniforms of Confederate soldiers in the Civil War, and describes both the wizard Gandalf in *The Hobbit* and the moral area between black and white.

Answer: **gray**