

2020 SCOP B

Round 4

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Tossups

(1) **The outer portion of this organ contains layers named for Descemet and Bowman, and may contain Dua’s Layer. Tay-Sachs disease causes a “cherry red spot” in a part of this organ. The fovea of this organ contains almost no (*) rod cells, which are more plentiful outside this organ’s macula. A ring of colored muscle in this organ, the iris, allows light to pass through the lens to the retina. For ten points, name this organ that passes information to the optic nerve to allow a person to see.**

ANSWER: eyes

(2) **The last section of this work describes three overlapping circles in the Empyrean, which the narrator sees while exploring with Beatrice. In the first section of this epic poem, Virgil shows the author a group of soothsayers walking with their heads turned (*) backward and a frozen lake at the center of nine circles of suffering, where the author sees Lucifer trapped in ice. For ten points, name this three-part poem by Dante in which he explores the Catholic afterlife by traveling through *Paradiso*, *Purgatorio*, and *Inferno*.**

ANSWER: **Divine Comedy** (accept Divina Commedia; anti-prompt on “Paradiso” before “Virgil” is read by asking “please be less specific”)

(3) **This brand’s mascot battles his nemesis from Earth-3, “Sunder,” in a series of DC comics. This brand’s mascot appears in a 2019 dating simulator, and is played by Mario Lopez in the Lifetime movie *A (*) Recipe for Seduction*. In 2020, this brand introduced a gaming console that routes excess heat through a food-warming drawer. For ten points, name this fast food brand that, in January 2021, rolled out a double-breaded chicken sandwich seasoned with eleven herbs and spices.**

ANSWER: KFC (accept Kentucky Fried Chicken; accept KFC Corporation; prompt on “PepsiCo” or “Yum!” or “Yum! Brands” before “founder” is read)

(4) **An off-shoot of this path, the Barlow Road, allowed travelers to cross the Cascade Range. The Applegate offshoot of this path diverted from it at Fort Hall. The 1851 Treaty of Fort (*) Laramie attempted to protect migrants traveling along this path from attacks by Cheyenne and Sioux groups. Independence, Missouri was the starting point of, for ten points, what trail that took settlers to the Willamette Valley in a namesake western territory?**

ANSWER: Oregon Trail

(5) **One of these religious structures at Abu Rawash was built for Dje-defre and destroyed by the Romans. In these structures, serdabs held Ka statues that could receive the smell of offerings. One of these structures in Saqqara, designed by Imhotep for (*) Djoser, adapted the older mastaba into a “stepped” one of these structures. Three of these structures built for Menkaure, Khafre, and Khufu dominate a necropolis near Giza. For ten points, name this kind of structure used to bury pharaohs in ancient Egypt.**

ANSWER: pyramids (accept pyramids of Giza; accept Pyramid of Djedefre, Djoser, Menkaure, Khafre, and/or Khufu; prompt on more general terms like “tomb,” “necropolis,” or “burial place”)

(6) **A depiction of this figure that stands between sculptures of Leah and Rachel tangles his fingers in his long, curling beard. A sculpture of this figure is the lower centerpiece of the tomb of Pope Julius II. A mistranslation of (*) Exodus led to the creation of a sculpture of this man with horns instead of the shining halo he had after he encountered God on Mount Sinai. For ten points, name this biblical figure who, in a sculpture by Michelangelo, holds a pair of tablets represent the Ten Commandments.**

ANSWER: Moses (accept Moshe; accept Musa; accept Horned Moses)

(7) **People from this country wrote the “same sky” poem on a shipment of masks sent to China. This country entered the Reiwa era [ray-wah era] in 2019, and suspended a disastrous 2020 “Go To Travel” campaign after it caused a massive surge in coronavirus cases; the campaign was spearheaded by this country’s current prime minister, (*) Suga Yoshihide [soo-gah yoh-shee-hee-day], who took over from Abe Shinzo [ah-bay sheen-zoh] in 2020. Naruhito [nah-roo-hee-toh] is the emperor of, for ten points, what country that has been forced to amend its plans to host the 2020 Summer Olympics in Tokyo?**

ANSWER: Japan (accept Nihon-koku; accept Nippon-koku)

(8) **The end of this novel focuses on the lives of Rose Maylie and her nephew, who gives part of his inheritance to his brother, Mr Monks, after he is adopted by Mr Brownlow. In this novel, Nancy is beaten to death by her lover, (*) Bill Sikes. This novel’s protagonist is rescued from the streets after he falls in with a pickpocketing gang led by Fagin and the Artful Dodger. For ten points, name this Charles Dickens novel about a title orphan, who is sent away from the poor house for asking for more gruel.**

ANSWER: Oliver Twist; or, the Parish Boy’s Progress

(9) **This group’s column on the periodic table includes tennessine, element 117, which is directly below the rarest element in the Earth’s crust, astatine. The element with the highest electronegativity is at the top of this group, whose members have (*) seven valence electrons. The negative ion that forms table salt with a positive sodium ion is in, for ten points, what group of the periodic table, found just left of the noble gases, that includes iodine, fluorine, and chlorine?**

ANSWER: halogens (accept Group 17; accept Group 7A)

(10) A controversial work in this field of study, *The Chrysanthemum and the Sword*, discusses guilt and shame cultures studied “at a distance” during World War II. Author Zora Neale Hurston studied this field at Columbia with (*) Ruth Benedict and Margaret Mead. Ethnography and archaeology are aspects of this field, which often takes a broader view of culture than sociology. For ten points, name this social science whose name comes from the Greek for “study of humans.”

ANSWER: anthropology (accept word forms like anthropologists)

(11) Nancy Schön designed a set of sculptures for this city’s Public Garden to commemorate the Robert McCloskey children’s book *Make Way for Ducklings*. Frederick Law Olmstead designed this city’s Emerald Necklace, which includes a (*) Common near this city’s Financial District. This city’s Back Bay contains the poorly-designed John Hancock Tower. Kenmore Square is near the oldest American baseball park in, for ten points, what Massachusetts city whose Fenway Park is home to the Red Sox?

ANSWER: Boston

(12) One of these musical works opens with a “Selig sind” choral section marked “ziemlich langsam” or “rather slow.” Franz Süßmeyer completed the *Lacrymosa* section of one of these works that was unfinished at the time of (*) Mozart’s death. A “German” one of these works uses text from the Luther Bible instead of a Latin text, and was written by Brahms, likely in memory of his mother. For ten points, name these musical works written to accompany a mass for the dead.

ANSWER: requiems (accept requiem masses; accept A German Requiem or Ein deutsches Requiem; accept Mozart’s Requiem in D minor; prompt on “mass” or “mass for the dead” before “mass” is read)

(13) The study of these systems can be simplified by Thévenin’s theorem or Norton’s theorem, depending on the components involved. The junction rule and loop rule described by Gustav (*) Kirchhoff concern these systems, which are drawn as diagrams in which curly lines and zig-zag lines represent inductors and resistors, respectively. Batteries may be included in, ftp what networks in which an electric current flows in a closed wire loop?

ANSWER: electrical circuit (prompt on “network” or “electrical network” before “network” is read)

(14) In this novel, Nikolai falls into debt to Dolokhov, who is killed in a duel over his supposed lover, Yelena. After the Battle of Austerlitz in this novel, Natasha (*) Rostova breaks off her engagement to Andrei Bolkonsky, and ultimately marries Pierre Bezukov, thereby joining two of this novel’s five central noble families. For ten points, name this extremely long novel about the social effects of Napoleon’s invasion of Russia, written by Leo Tolstoy.

ANSWER: War and Peace (accept Voyna i mir)

(15) The “adjacency” type of this object uses ones and zeroes to describe the connected-ness of a graph. Putting these objects into reduced-row-echelon form is used in Gauss-Jordan elimination, a method of solving systems of equations; another method, (*) Cramer’s rule, involves finding the determinants of these mathematical objects. These objects cannot be added if they have different dimensions. For ten points, name these arrangements of numbers in rows and columns.

ANSWER: matrix (accept matrices)

(16) **This leader attempted to escape from Beurevoir Castle by jumping out of a seventy-foot tower into a dry moat. Because heresy only carried the death penalty if it was a repeat offense, this woman was charged with (*) cross-dressing so that she could be burned at the stake. This woman told the future Charles VII [the seventh] that she was on a divine mission, prompting him to send her to relieve the Siege of Orléans [or-lay-ON].** For ten points, name this French peasant girl who became a hero during the Hundred Years War.

ANSWER: Joan of Arc (accept Jeanne d’Arc; prompt on “Maid of Orléans” or “Pucelle d’Orléans” before “Orleans” is read)

(17) **This religious practice is promoted by the *Visu-ddhi-magga* as a path to dhyana. A form of this practice called *zazen* [zah-zen] includes the study of koans [koh-ahns]. This practice can be performed using a *japa-mala* while in *padma-sana* in the (*) Pure Land school, which focuses heavily on pursuing this practice through the use of repetitious mantras in an attempt to promote sati, a form of “mindfulness.”** For ten points, name this Buddhist religious practice of deep, focused reflection.

ANSWER: meditation (accept word forms like meditate or meditating; prompt on “mindfulness” before it is read)

(18) **In this novel, Bill Smithers complains about his hospital being bombed after his hand is crushed by one of his comrades. In this novel, the protagonist and Wilson “deserve t’ be major-generals” after carrying the (*) Union flag in a charge. This novel’s protagonist is hit in the head with a rifle-butt after fleeing from a battle and witnessing the death of Jim Conklin.** For ten points, name this Stephen Crane novel in which the Civil War soldier Henry Fleming longs to be wounded to prove his bravery.

ANSWER: The Red Badge of Courage

(19) **When these objects contain nitric acid, they can become “nacreous” and iridescent. “Lenticular” ones of these objects can form in the troposphere. Silver iodide can induce nucleation in these objects to (*) “seed” them. Contrails are a human-made “cirrus” type of these objects, and the cumulo-nimbus type are nicknamed “thunderheads” when they appear during storms.** For ten points, name these condensed groups of water particles that form visible globs in the sky.

ANSWER: clouds (accept nacreous clouds; accept lenticular clouds; accept cirrus clouds; accept cumulonimbus clouds)

(20) **In a 1919 case, Oliver Wendell Holmes wrote that Charles Schenck was not protected by this amendment due to his actions constituting a “clear and present danger.” The case *Texas v. Johnson* ruled that (*) burning the American flag was political expression, and is thus protected under this amendment. Obscenity, threats against the president of the United States, and “fighting words” are all exceptions to, for ten points, what amendment that guarantees freedom of speech?**

ANSWER: First Amendment (accept Amendment I [one])