

SCOP Novice 4 | Round 8

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Tossups

1. **This novel's protagonist sees Mr. Cunningham staking out the jail and asks him to tell his son Walter "hey." One character in this novel gives a girl a blanket while Miss Maudie's house is burning and scares (*) Dill Harris and Jem away. Boo Radley rescues the narrator from Mr. Ewell after her father, Atticus, defends Tom Robinson in a trial. For 10 points, name this novel narrated by Scout Finch and written by Harper Lee.**

Answer: To Kill A Mockingbird

2. **This school believed that the purpose of life was to live virtuously and self-sufficiently with Nature. One member of this philosophic school asked Alexander the Great to get out of his sunlight, slept in a bathtub in the street, and walked the street carrying a lantern searching for an (*) honest man. Diogenes of Sinope was a member of, for 10 points, what Ancient Greek school of philosophy whose name now refers to a distrusting lack of faith in others?**

Answer: Cynicism (accept word forms)

3. **The town of Moshi lies on the south slopes of this mountain, which Douglas Adams climbed in a rhino suit for charity. The highest of this mountain's three cones, Kibo Peak, is a dormant volcano that has (*) lost a significant portion of its ice cap in recent years. It is located roughly 300 miles southeast of Lake Victoria on the border between Kenya and Tanzania. For 10 points, name this tallest mountain in Africa.**

Answer: Mount Kilimanjaro

4. **Divers use a "trimix" gas consisting of oxygen, nitrogen, and this element. Below the lambda point, it has no viscosity and is called a superfluid. Alpha particles are the nuclei of the most common isotope of this element, which is the (*) second most abundant in the universe. Because sound travels faster in this element than in air, inhaling it results in a high-pitched voice. For 10 points, name this lightest noble gas, whose symbol is He [H-E, not "he"].**

Answer: helium (prompt on He)

5. **This work begins by invoking a "Heav'nly Muse" from "the secret top of Oreb or of Sinai." Its antagonist works with Mammon and Beelzebub to build Pandemonium, and claims it is "better to (*) reign in Hell than serve in Heaven." Written to "justify the ways of God to men," this work details "man's first disobedience," caused by a fallen angel, Lucifer. For 10 points, name this work about the expulsion from the Garden of Eden, an epic poem by John Milton.**

Answer: Paradise Lost

6. Magnesium oxide is the second-most abundant compound in this region. Convection in this region, which includes the asthenosphere, causes seafloor spreading, and it is believed to be the site of plumes that cause (*) volcanic hotspots. This region, which lies under the Moho discontinuity, makes up eighty-four percent of the Earth's volume. For 10 points, name this plastic solid region of the inner Earth below the crust.

Answer: (upper or lower) mantle (prompt on asthenosphere before mentioned)

7. Upon taking office, this man said "Our Constitution works...Here, the people rule." Within a span of three weeks, Sara Jane Moore and "Squeaky" Fromme each tried to shoot this replacement of the resigned (*) Spiro Agnew. This President testified before Congress in 1974 about his controversial pardoning of his predecessor. For 10 points, name this 38th U.S. President, who served after the resignation of Richard Nixon.

Answer: Gerald Rudolph Ford

8. While traveling, this composer was inspired by dancehall music and folk songs like "El Palo Verde" to write *El Salón México*. This student of Nadia Boulanger wrote the film score to *Of Mice and Men* and a work where the tomboyish (*) Cowgirl kisses the Roper during the Hoe-Down. *Rodeo* [ro-DAY-oh] and *Fanfare for the Common Man* were composed by, for 10 points, what American composer who used the Shaker tune "Simple Gifts" in *Appalachian Spring*?

Answer: Aaron Copland

9. The signing of this free agent caused Omer Asik to request a trade. He set a Finals record with 9 blocks in a Game 4 loss, but his team then lost the 2009 NBA Finals to Los Angeles. In 2012, Andrew (*) Bynum was dealt to Philadelphia as part of a three-team trade that made this player a Laker for one season. For 10 points, name this center, nicknamed "Superman," who signed with the Houston Rockets in 2013.

Answer: Dwight Howard

10. One holder of this position survived an attack by Mehmet Ali Agca in 1981. Another leader of this type fought Venice in the War of the League of Cambrai. During the 1300s, another of these men moved his court to Avignon, leading to the (*) Western Schism. The current holder of this title once held by Julius II and John Paul II is an Argentine Jesuit. Francis is the current holder of, for 10 points, what chief position in the Catholic Church?

Answer: Pope of the Roman Catholic Church (accept word forms, such as papacy; accept papa; accept Bishop of Rome; do not accept or prompt on "Bishop")

11. In this myth system, the four Bacabs, one for each direction, were responsible for holding up the sky. In one of its myths, a bird who thinks he's the sun and moon is killed after his teeth are replaced with corn. Seven Macaw is defeated by Hunahpu [hoo-nah-poo] and (*) Xbalanque [sh'BAH-lahn-kay], the "hero twins" of this mythology, who also played the ball game in Xibalba [shee-BAHL-bah], the underworld. For 10 points, name this Mesoamerican myth system whose calendar supposedly predicted that the world would end in 2012.

Answer: Mayan mythology

12. According to special relativity, this quantity equals mass times the Lorentz factor times the speed of light squared minus the rest energy. The temperature of a gas is proportional to the (*) average value of this for its particles. The change in this quantity is the work done on an object, and it is equal to one half times mass times velocity squared. As an object falls, its potential energy is converted into, for 10 points, what type of energy related to motion?

Answer: kinetic energy (accept KE; prompt on energy)

13. One speech given in this U.S. state says "I do not expect the Union to be dissolved -- I do not expect the house to fall." In a debate held in this state, Stephen Douglas proposed his (*) "Freeport Doctrine;" that was one of seven debates for this state's Senate seat between Douglas and the speaker of the "House Divided" speech, Abraham Lincoln. For 10 points, name this U.S. State, in which Lincoln and Douglas spoke in Springfield and Chicago.

Answer: Illinois

14. This work's narrator commands his guests to "tear up the planks" when they fail to notice the crime scene around them. The narrator claims that his nervous "disease" has sharpened his senses, and he visits his sleeping victim for a (*) week before smothering him with his bed. A sound like a watch in cotton drives the narrator to tell three policemen that he has killed and dismembered his vulture-eyed landlord in, for 10 points, this short story by Poe.

Answer: The Tell-Tale Heart

15. Flippases ["flip aces"] allow movement between this structure's two "leaflets". The glycocalyx is a layer just outside this structure, which is described by the fluid mosaic model. Hydrophobic "tails" and hydrophilic ["hydro"-FIL-ik] "heads" comprise the (*) "phospholipid [FAHS-foh-LIH-pid] bilayer" that is the main part of this structure. Plants have an extra "wall" around this object that is interrupted by aquaporins and sodium-potassium pumps. For 10 points, name this organelle that makes up the exterior of a cell.

Answer: cell membrane (accept plasma membrane; accept phospholipid bilayer before "phospholipid"; prompt on "cell" before it is mentioned; do not accept "cell wall")

16. He restored most of Bramante's plan for St. Peter's Basilica as its major architect, and one of his works contains a supposed self-portrait of him in St. Bartholomew's flayed skin. He carved his name into Mary's sash in his (*) *Pietà* [pee-ay-tah], and this artist of *The Last Judgement* sculpted a young, relaxed marble *David*. For 10 points, name this artist who painted *The Creation of Adam* on the Sistine Chapel ceiling.

Answer: Michelangelo Buonarroti

17. A flattened Sonobe [soh-noh-bay] unit has this shape. The midpoints of any quadrilateral can be connected to form one of these figures. Vectors may be added using a "rule" named for this shape, whose diagonals (*) bisect each other, but not necessarily perpendicularly. If one of these shapes is inscribed in a circle, it must be a rectangle. Congruent opposite angles, and supplementary adjacent angles are found in, for 10 points, what quadrilateral whose opposite sides are congruent and parallel?

Answer: parallelogram (prompt on quadrilateral or quadrangle; do not accept or prompt on any other answer)

18. This author of 24 *Roman Elegies* wrote novels based on the "apprenticeship" and "journeyman years" of Wilhelm Meister. He created a character who loves Charlotte but kills himself after he discovers she is engaged. In this man's most famous work, a (*) black poodle transforms into Mephistopheles, who offers the title scholar everything in return for his soul. For 10 points, name this German author of *The Sorrows of Young Werther* and a two-part *Faust*.

Answer: Johann Wolfgang von Goethe [GEUH-tuh, but be lenient with pronunciation]

19. This conflict began with an attack on the Moncada Barracks, after which one leader gave the "History will absolve me" speech. In this war, the 26th of July Movement engaged in guerilla warfare under (*) Che Guevara. It ended with the overthrow of Fulgencio Batista, after which the United States used a trade embargo to halt the growth of Communism. For 10 points, name this revolt in which Fidel Castro rose to power in Havana.

Answer: Cuban Revolutionary War (both underlined parts required)

20. At the end of this holiday's service, drinking songs like "Had Gadya" are sung, and earlier "Dayenu" ["dye"-AY-noo] is recited. At that service, the youngest person present asks why observers recline as part of the (*) Four Questions. Observers of this holiday spill ten drops of wine--one for each plague--from the four cups of wine they drink, and they also eat unleavened bread called matzah. For 10 points, name this holiday celebrating the exodus of the Israelites from Egypt.

Answer: Passover (or Pesakh; accept Passover seder)

Bonuses

1. Crude oil is treated through the “fractional” variant of this process. For 10 points each, [10] Name this method of separating fluids by their volatilities, using heating and condensing. Strong alcohols are concentrated using this technique.

Answer: **distillation** (accept word forms)

[10] Fractional distillation is useful when individual components have similar values for this temperature where liquid and vapor are in equilibrium. For water, this value is 100 degrees Celsius.

Answer: **boiling** point (or **boiling** temperature)

[10] This law describes the composition of products when distilling ideal solutions. It states that the partial pressure of each component equals its mole fraction times its pure vapor pressure.

Answer: **Raoult's** law

2. Kanye West designed a "hip-hop" version of this item; it is white, it is blank, and it costs \$120. For 10 points each,

[10] Name this article of clothing. A 2012 hit song implores "let's do some simple addition" with regards to a \$50 limited edition one of these items.

Answer: **T-shirt** (prompt on shirt)

[10] Wanz sings "I wear your granddad's clothes/I look incredible" in this aforementioned song by Macklemore and Ryan Lewis.

Answer: **Thrift Shop**

[10] This second #1 single for Macklemore and Ryan Lewis was actually released a year before Thrift Shop. The chorus, sung by Ray Dalton, asks "Can we go back?" and notes "Tonight is the night/we'll fight 'til it's over."

Answer: **Can't Hold Us**

3. A bust of Ludwig von Beethoven overlooks the Naumberg Bandshell near the Bethesda Fountain in this park. For 10 points each,

[10] Name this large urban park in the middle of Manhattan island.

Answer: **Central Park**

[10] Another Central Park music venue is the concert hall in this museum on Fifth Avenue, the largest American art museum. Its permanent collection includes *View of Toledo* and *The Death of Socrates*.

Answer: The **Metropolitan Museum** of Art (or The **Met**)

[10] One quiet zone in Central Park is this memorial to John Lennon, named after a Beatles song.

Answer: **Strawberry Fields**

4. This event took place a short boat ride from Manhattan in Weehawken, New Jersey, and was attended by William Van Ness and Nathaniel Pendelton, who served as seconds. For 10 points each,

[10] Name this 1804 event, the culmination of a lifelong feud, in which a sitting Vice President shot and killed a former Secretary of the Treasury.

Answer: the duel between Aaron Burr and Alexander Hamilton (all underlined parts required; prompt on partial answers; prompt on terms similar to duel, such as “(Aaron) Burr killing, assassinating, or shooting (Alexander) Hamilton”)

[10] The feud between Hamilton and Burr deepened after the Election of 1800, when Burr and Thomas Jefferson tied in the Electoral College. The election was decided by this body, which, with the Senate, makes up the United States Congress.

Answer: U.S. House of Representatives

[10] Hamilton convinced members of the House, including this state's only Representative, James Bayard, to name Jefferson as President. Caesar Rodney is another Founding Father from this state.

Answer: Delaware

5. The “transfer” variety of this substance moves amino acids to ribosomes. For 10 points each,

[10] Name this usually *single*-stranded type of molecule that carries genetic information.

Answer: ribonucleic acid (or RNA; do not accept “DNA” or “deoxyribonucleic acid”)

[10] Both RNA and DNA have a “backbone” made of a sugar and this inorganic ion with formula PO_4^{3-} [“P O four, three minus”].

Answer: phosphate group or phosphate ion

[10] In DNA, adenine pairs with thymine, but in RNA, adenine pairs with this other nucleobase.

Answer: uracil

6. This titan’s son, Phaethon, stole this god’s chariot and set the earth on fire by driving too close to the ground. For 10 points each,

[10] Name this Greek god, who was replaced in late mythology by Apollo.

Answer: Helios (do not accept Sol)

[10] This twin of Apollo was the virgin goddess of the hunt.

Answer: Artemis (do not accept Diana)

[10] When Apollo replaced Helios, Artemis took over the domain of Selene, the goddess of this astrological feature that orbits Earth.

Answer: moon

7. Name some giants of science fiction, for 10 points each.

[10] This member of the Big Three wrote the *Foundation* and *Galactic Empire* series and outlined the "Three Laws of Robotics" in his book *I, Robot*.

Answer: Isaac **Asimov**

[10] This man wrote *Speaker for the Dead* as a sequel to a novel about Valentine and Peter Wiggin and their young brother, *Ender's Game*.

Answer: Orson Scott **Card**

[10] This author won the first Nebula Award for *Dune*, a novel about Arrakis, a planet rich with the Spice melange, and Paul Atreides, the kwisatz haderach [KWIH-sots HAH-de-"rack"].

Answer: Frank **Herbert**

8. Give the following about significant storms for 10 points each.

[10] Tropical storms can develop into these cyclonic storms, which have wind speeds of over 74 miles per hour. These storms travel from east to west across the Atlantic Ocean, as opposed to Pacific Ocean typhoons.

Answer: **hurricanes**

[10] This term does not describe a storm, but rather the seasonal reversal in wind circulation that causes rainy seasons in places like India and Bangladesh.

Answer: **monsoons**

[10] Voyager 2 discovered a series of anticyclonic storms on Neptune that are collectively given this three word name, inspired by a similar storm on Jupiter.

Answer: **Great Dark Spot**

9. In 336 BCE, this man succeeded his father, Philip II; within two years, he had pacified Greece and started an invasion of Persia. For 10 points each,

[10] Name this "Great" Macedonian leader, whose Hellenistic empire eventually stretched to India before he died at the age of 32.

Answer: **Alexander** the Great

[10] In 331 BCE, Alexander founded the city of Alexandria in this modern day country, spreading Greek culture to the Nile River Valley.

Answer: **Egypt**

[10] The Persian Empire was led by this man when Alexander invaded and conquered it. This man fled so quickly from the Battle of Issus that Alexander was able to capture his family.

Answer: **Darius III** (prompt on Darius; do not accept Darius the Great)

10. This Imagist poem reads, in its entirety, “so much depends upon” [the title object] “glazed with rain water \ beside the white chickens.” For 10 points each,

[10] Name this William Carlos Williams poem.

Answer: The **Red Wheelbarrow**

[10] “The Red Wheelbarrow” illustrates Williams’ belief that there are “no ideas but in things,” as he writes in *Paterson*, a five-book poem about a city in this United State with capital Trenton.

Answer: **New Jersey**

[10] “The Red Wheelbarrow” is an example of this poetic form, in which there is no patterned meter or rhyme scheme, as opposed to blank verse, which has meter but is not necessarily rhymed.

Answer: **free** verse

11. Lawsuits brought by education student George McLaurin and law student Heman Sweatt ended this practice in graduate schools in 1950. For 10 points each,

[10] Give this three-word phrase that described legal forms of segregation, such as designating “white only” and “black only” schools. This doctrine was ruled unconstitutional in the 1954 case *Brown v. Board of Education*.

Answer: **“separate but equal”** (accept either order)

[10] This 1896 Supreme Court case established the “separate but equal” doctrine. Justice John Harlan was the only dissenter from the majority in this case.

Answer: **Plessy v. Ferguson**

[10] This future Supreme Court justice argued before the Court for the NAACP in *Brown v. Board of Education*.

Answer: Thurgood **Marshall**

12. Syncretic religions combine elements of different religions into a single belief system. For 10 points each,

[10] The majority of this nation’s citizens practice shinbutsu-shuugou [sheen-boo-tsoo shoo-goh], the combination of Buddhism and this country’s native Shinto religion.

Answer: **Japan** (accept **Nihon**-koku; accept **Nippon**-koku)

[10] Like Santeria, this syncretic religion combines elements of Christian and Yorùbá culture, and has variants in Haiti and Louisiana. Adherents of this religion appeal to loa [loh-ah] to act on behalf of the supreme god, Bondye [bond-yeh].

Answer: **Voodoo** (accept **Vodun**)

[10] Founded by Bahá’u’lláh [bah-hah-oo-lah], this religion commemorates Messengers of God like Jesus, Muhammad, Zoroaster, and the Báb [“bob”].

Answer: **Bahá’i** Faith (accept **Bahaism**)

13. This work is often compared to *The Canterbury Tales* and the *Arabian Nights* due to its similar format. For 10 points each,

[10] Name this set of stories by Boccaccio, told by ten young people fleeing a plague-ridden Florence.

Answer: The Decameron

[10] Giovanni Boccaccio's *Decameron* is a literary work in this language, which was also used by Dario Fo and Luigi Pirandello.

Answer: Italiano (do not accept "Latin")

[10] Boccaccio's poem *Il Filostrato* tells of this pair of Trojan lovers, the youngest son of Priam and his betrothed. Chaucer and Shakespeare both wrote plays named for this pair of lovers.

Answer: Troilus and Cressida (both underlined parts required; accept Criseyde for Cressida; prompt on partial answer)

14. Axel Oxenstierna advised this son of Charles IX, who soundly defeated the Count of Tilly at Breitenfeld in 1631. For 10 points each,

[10] Name this ruler, who later led a victory over the Holy Roman Empire at Lutzen but was killed in the process.

Answer: Gustavus Adolphus (or Gustav II Adolf; prompt on partial answer)

[10] The Battles of Breitenfeld and Lutzen were victories for the Protestant States over the Catholics in this war, which was ended by the Peace of Westphalia. This war is named for its duration.

Answer: Thirty Years' War

[10] Gustavus Adolphus led this country during the Thirty Years' War. His body is interred in a burial church on a small island in Stockholm.

Answer: Sweden

15. A diagram in this shape, named for Blaise Pascal, displays binomial coefficients; each term in the diagram can be found by adding the two terms above it. For 10 points each,

[10] Name this shape, a polygon with internal angles summing to 180 degrees.

Answer: triangle (accept Pascal's triangle)

[10] The entries in each row of Pascal's triangle sum to one of these values. For example, $1 + 4 + 6 + 4 + 1$ equals 16.

Answer: (integer) powers of 2 (or 2 raised to the n or 2 raised to an integer power)

[10] The third diagonals of Pascal's triangle sum to the triangular numbers; the fourth diagonals sum to the numbers named for this other shape, the Platonic solid with the smallest number of faces.

Answer: tetrahedron (or tetrahedral numbers)

16. In this play, the main character watches as Yorick, a jester, is exhumed to make room for Ophelia's grave. For 10 points each,

[10] Name this Shakespeare play, in which the title prince seeks to avenge his father against his uncle, Claudius, who has married Queen Gertrude.

Answer: The Tragedy of Hamlet, Prince of Denmark

[10] In one of his soliloquies, Hamlet wishes that his "too, too solid" *this* "would melt." In another Shakespeare play, a Jewish moneylender demands a measure of this substance from Antonio.

Answer: flesh (prompt on similar answers, such as "meat" or "his body")

[10] The moneylender, Shylock, demands a pound of flesh from Antonio in this Shakespeare play, in which Portia disguises herself as the lawyer Balthasar to defend Bassanio and Antonio.

Answer: The Merchant of Venice

17. This philosopher's skepticism of rationalism awoke Immanuel Kant from his "dogmatic slumber." For 10 points each,

[10] Name this Scottish philosopher, who revised parts of his *Treatise of Human Nature* into *An Enquiry Concerning Human Understanding*.

Answer: David Hume

[10] Hume wrote an essay on the *Natural History* of this social phenomenon, whose Abrahamic examples include Christianity, Judaism, and Islam.

Answer: Religion (accept The Natural History of Religion; do not accept "faith" or other variants)

[10] Hume also wrote *Dialogues Concerning Natural Religion*, in which the characters Pamphilus, Cleanthes, and Philo accept this philosophical statement but disagree over whether the appearance of design in nature proves this statement.

Answer: existence of God (accept logical equivalents; do not accept "non-existence of God")

18. In this opera, the Count thrice disguises himself--once as Lindoro, a drunken soldier, and once as Don Alfonso--in order to woo Don Bartolo's ward. For 10 points each,

[10] Identify this opera, an adaptation of a play by Pierre Beaumarchais, in which the title valet and haircutter helps Count Almaviva court Rosina.

Answer: The Barber of Seville

[10] *The Barber of Seville* was written by this composer. He also adapted Friedrich Schiller's play about a Swiss archer into the opera *William Tell*.

Answer: Gioachino Rossini

[10] This title character of *The Barber of Seville* repeats his name several times in the aria "Largo al Factotum." Another Beaumarchais play about this character's *Marriage* was adapted into a Mozart opera.

Answer: Figaro

19. This work features an upside-down woman with a violin next to a man with a scythe. For 10 points each,

[10] Name this work which shows a lamb staring at a man with a green face in front of the artist's title Russian hometown.

Answer: **I and the Village**

[10] This Jewish artist of *I and the Village* created the stained-glass *America Windows* in the Chicago Art Institute as well as the painting *The White Crucifixion*.

Answer: Marc **Chagall**

[10] Chagall painted the ceiling of the Palais Garnier, the home of this city's opera company. He featured the Eiffel Tower in a painting of this city "Out the Window."

Answer: **Paris**

20. Answer some questions about forces, for 10 points each,

[10] Forces are examples of which type of quantity that have both magnitude and direction?

Answer: **vector** quantities (accept **vectors**)

[10] According to Newton's First Law of Motion, what is the value of the net force acting on an object in equilibrium?

Answer: **zero** (accept equivalents like **none**)

[10] What name is given to the force that is exerted on an object by a surface it is in contact with?

Answer: **normal** force