

SCOP Novice 13

Round 2

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Tossups

- 1) **This author drew on his own experiences for novels about Frederic Henry, an army medic serving in Italy, and about Jake Barnes, an American expatriate living in Europe after World War I. In a short novel by this author, (*) Santiago catches a giant marlin, only for it to be eaten by sharks before he can return to shore. For ten points, name this American author who popularized the term “Lost Generation” with his novel *The Sun Also Rises*, and who also wrote *A Farewell to Arms* and *The Old Man and the Sea*.**

ANSWER: Ernest Hemingway (accept Ernest Miller Hemingway)

- 2) **In a story from the Prose Edda, Váli is forced to kill one of this god's sons, Narfi, whose entrails are used to bind this god under the dripping fangs of a serpent. With his consort, Angrbotha, this god was the father of a half-corpse goddess and an enormous (*) wolf. This god tricked Hodr into accidentally killing Baldr with a spear of mistletoe. The goddess Hel and the Fenris wolf are the children of, for ten points, what shape-shifting Norse god of mischief?**

ANSWER: Loki

- 3) **When Bernoulli’s principle is formulated in terms of pressure, this quantity multiplies both the “g H” and “one-half v-squared” terms. Archimedes, after finding a method to compare this quantity for a fake gold crown and a sample of pure gold, legendarily shouted (*) “Eureka!” When two immiscible liquids are mixed, the one with a higher value for this property settles at the bottom. For ten points, name this quantity that is often symbolized rho and calculated as mass over volume.**

ANSWER: density (accept fluid density; prompt on “rho” before it is read)

- 4) **Description acceptable. In May 2023, a study of this location found a megalodon tooth necklace. A British firm called Magellan created a 3D digital scan of this location, including a roughly three-square-mile debris field. (*) Stockton Rush and four other men were on their way to visit this location in June 2023 when, presumably, their carbon fiber hull failed. An OceanGate submersible imploded on its way to, for ten points, what enormous shipwreck on the bottom of the North Atlantic Ocean?**

ANSWER: the wreck of the RMS Titanic (accept descriptions of “the floor of the North Atlantic Ocean where the Titanic rests;” prompt on descriptions of the “Atlantic Ocean” or the “ocean floor” that don't specifically include the word “Titanic”)

- 5) **This figure is the namesake of the second book of the Genesis Apocryphon, one of the Dead Sea Scrolls. Because Satan increased the strength of this biblical figure's wine, this man cursed his grandson, Canaan, to punish this man's son, (*) Ham, for looking at him while he was drunk and naked. This man planted the first vineyard after he received the sign of a rainbow when he reached dry land. For ten points, name this biblical figure who was commanded by God to build an ark to survive the great flood.**

ANSWER: Noah (accept Nuh)

- 6) **To create a “cluster” type of this musical element, Charles Ives devised a special wooden bar. The tonic, subdominant, and dominant types of these things, labeled I, IV, and V [“one, four, and five”], make up common progressions of these things. An (*) arpeggio breaks up one of these things. The triad of C, E, and G form the “C major” example of these sounds. For ten points, give this musical term for a combination of multiple notes played simultaneously.**

ANSWER: chords (accept cluster chords; accept chord progressions)

- 7) **These objects were at the center of the Supreme Court cases of *McDonald v. Chicago* and *D.C. vs. Heller*. The Brady Act instituted waiting periods and (*) background checks for purchasers of these objects. The phrase “being necessary to the security of a free State” is part of a Constitutional protection for, For ten points, what objects that US citizens are permitted to “keep and bear,” according to the second amendment?**

ANSWER: gun (accept equivalents, like firearms; accept specific types of firearm like rifle or shotgun or handgun; prompt on “weapons”)

- 8) **In this novel, Israel Hands is shot while attacking a young boy with a knife, and a man who keeps parmesan cheese in a snuff-box saves the protagonist and a cook by pretending to be the ghost of Captain Flint. After seeing Billy Bones receive the (*) black spot, this novel's protagonist joins a voyage aboard the *Hispaniola*. Jim Hawkins narrates, for ten points, what novel by Robert Louis Stevenson in which the one-legged sailor Long John Silver leads a mutiny to find and steal pirate gold?**

ANSWER: Treasure Island (accept Treasure Island or the Mutiny of the Hispaniola)

- 9) **Centrifuging this liquid separates it into a thin white buffy coat immediately below a yellow liquid that's rich in proteins like albumins and fibrinogen. Vitamin K is necessary for the proteins that convert this liquid into a gel around cross-linked (*) platelets. Transfusing this liquid between patients requires a match of the Rh factor [R-H factor] and the A and B antigens. For ten points, name this liquid that flows in the circulatory system.**

ANSWER: blood

- 10) **The first holder of this position survived a bodybuilder throwing a one-hundred-fifty-pound metal cone at his carriage train, because the cone hit a decoy carriage. Rivers of mercury flowed through the underground tomb of the first holder of this position.** (*) Zhao Zhang's unification campaign ended with him creating this title, using the term “huang di.” For ten points, name this position that was first held by Qin Shi Huangdi as ruler of dynastic China.

ANSWER: Emperor of China (accept (Qin Shi) Huangdi before “huang di” is read; prompt on partial answers, like “ruler of China” or “Emperor” or “huang”)

- 11) **Remote islands in this ocean include one led from Flying Fish Cove, Christmas Island. This ocean includes the Gulf of Mannar and the Palk Strait on either side of Adam's Bridge. One arm of this ocean, the Laccadive Sea, has its western border defined as the** (*) **Maldives island chain.** The Bay of Bengal, Arabian Sea, and Persian Gulf are northern arms of, for ten points, what ocean found between Africa and Australia?

ANSWER: Indian Ocean

- 12) **One of these phenomena was used by Arthur Eddington in 1919 to prove Einstein's theory of relativity. “Baily's beads” and “diamond ring” effects can be seen during these events. These events can be “annular,” and even when they are “total,” a** (*) **corona is still visible on their edges because of the relative size of an object that is close to Earth during these events.** For ten points, name this phenomenon in which the moon blocks parts of the sun when viewed from the Earth.

ANSWER: solar eclipse (prompt on “eclipse;” prompt on “occultation;” do not accept or prompt on other kinds of eclipse like “lunar eclipse”)

- 13) **A poem on the frame of one version of this painting describes “shivering with Anxiety” under “Blood and Tongues of Fire.” Two distant figures in this painting walk together next to a railing on a hill overlooking** (*) **Oslo Harbor, where shadowy ships float under a violently swirling, red and orange sky that sets off the angst of this painting's central figure.** For ten points, name this painting by Edvard Munch in which a figure with a bald, elongated head holds its hands to its head and opens its mouth wide to create the title sound.

ANSWER: The Scream (accept Der Schrei der Natur; accept The Scream of Nature; accept Skrik)

- 14) **In this play, the warning “when beggars die there are no comets seen” is ignored by Calphurnia's husband, who says that “cowards die many times before their deaths.” A character in this play is mocked as an “honorable man” during a funeral oration that begins, “Friends,** (*) **Romans, countrymen, lend me your ears” and is delivered by Marc Antony. A soothsayer warns, “Beware the ides of March” in this play.** For ten points, name this Shakespeare play in which the title dictator is stabbed to death by Cassius and Brutus.

ANSWER: Julius Caesar (accept The Tragedy of Julius Caesar)

- 15) **After Dearica Hamby alleged discrimination due to one of these events, Becky Hammon was suspended two games and the Las Vegas Aces lost a draft pick. In January 2017, a player with this condition won a seventh Australian Open and twenty-third Grand Slam while (*) eight weeks into this forty-week condition. Roller derby skaters often use the phrase “nine month injury” to describe, for ten points, what life event that, for Serena Williams, required recovery from C-section surgery?**

ANSWER: pregnancy (accept gestation; accept childbirth)

- 16) **The concentration of chemicals in this phase, usually symbolized with an x, is multiplied by the Henry constant in Henry’s law. This phase is both the dispersed and the continuous phase in an emulsion. This phase first appears at the (*) dew point as a vapor is slowly cooled. Bromine occupies this phase at room temperature. This phase occupies the top-middle portion of a phase diagram, where it can be produced by condensation or melting. For ten points, what phase is water at room temperature?**

ANSWER: liquid phase

- 17) **As a New York State assemblyman, this man attempted to introduce a bill to outlaw slavery. This man attempted to establish an independent (*) country in the Southwestern United States in a namesake conspiracy. This man helped turn the Hamney Society from a social club to a political machine to help Thomas Jefferson become president. Alexander Hamilton was shot and killed by, for ten points, what vice president of Thomas Jefferson?**

ANSWER: Aaron Burr

- 18) **The optimal arrangement of these shapes is described by the kissing number. This shape names a coordinate system that uses an azimuthal angle, a polar angle, and a slant radial distance to describe its points. Every point on the surface of this (*) three-dimensional shape is the same distance away from its center. The volume formula of “four-thirds, times pi, times the radius cubed” is used by, for ten points, what three-dimensional circular shape?**

ANSWER: sphere

- 19) **An invasion of this country was thwarted at the 1513 Battle of Flodden Field by the Earl of Surrey. In 1603, this country's King James VI [the sixth] became James I [the first] of a neighboring country. A 1707 Act of (*) Union united England and this country; a century later, another Act of Union brought Ireland into the United Kingdom. For ten points, name this British country that is north of Wales and England and has capital Edinburgh.**

ANSWER: Scotland (accept Kingdom of Scotland)

- 20) **This author coined many epithets, such as referring to the sea as “wine-dark” and the dawn as “rosy-fingered.” In a work by this author, a character uses the name “Outis” to trick a cyclops into thinking he is (*) “no man” or “nobody.”** This author described the husband of Penelope traveling between Scylla and Charybdis in a long journey back to his home of Ithaca. For ten points, name this Greek epic poet of *The Odyssey*.

ANSWER: Homer (accept Homeros)

Bonuses

- 1) This artist modeled his ideal artistic body proportions on the architect Vitruvius's description of an ideal building that mimics an ideal human body. For ten points each,

Name this artist who sketched a man looking out at the viewer while inscribed in a circle and a square in *Vitruvian Man*.

ANSWER: Leonardo **da Vinci** (accept **Leonardo** da Vinci)

The subject of this portrait by Leonardo looks out at the viewer with her hands folded demurely on her chair arm. Over time, the fine lines of this painting's eyelashes and eyebrows have worn away.

ANSWER: **Mona Lisa** (accept La **Giocondo**; accept La **Joconde**)

This other front-facing portrait by Leonardo shows Jesus wearing ornate blue robes and holding a clear orb representing the celestial sphere in his left hand.

ANSWER: **Salvator Mundi**

- 2) The field in which this phenomenon exists is represented by two quantities: a capital B symbolizes its flux density, and a capital H symbolizes its strength. For ten points each,

Name this physical phenomenon in which an object, depending on the alignment of its north and south poles, either attracts or repels another object.

ANSWER: **magnetism** (accept word forms like **magnetic**)

One of the most commonly experienced forms of magnetism is ferromagnetism, which exists in elements like nickel, cobalt, and this namesake element whose atomic symbol is Fe **[F-E]**.

ANSWER: **iron**

Ferromagnetism is “permanent,” as it lasts after the external magnetic field is removed. The strongest example of a permanent magnet is made from this rare-earth element whose atomic symbol is Nd **[N-D]**.

ANSWER: **neodymium**

- 3) Answer the following about presidential ghost stories for ten points each.

Winston Churchill, the Dutch Queen Wilhelmina, and Teddy Roosevelt each claimed to encounter the ghost of this sixteenth U.S. president in the White House. This man's son Willie, who died in 1862, was also said to haunt the White House.

ANSWER: Abraham Lincoln

Teddy Roosevelt became president in 1901 after the assassination of this man. In 1912, this man's ghost supposedly visited John Schrank and told him to avenge his death by shooting Teddy Roosevelt.

ANSWER: William McKinley, Jr.

Mary Todd Lincoln once claimed she heard this former president swearing and laughing in the White House. This man also survived an assassination attempt; Richard Lawrence's pistols jammed, after which this man beat Lawrence half to death with his cane.

ANSWER: Andrew Jackson

- 4) In October 2023, Peter Whidden announced the results of his first fifty-thousand hours training an AI to play this 1996 Game Boy game. For ten points each,

Name this first-generation title in an incredibly popular video game series. Make sure you get the right one; this game has a Charizard on the cover, not Blastoise.

ANSWER: Pokémon Red (prompt on “Pokémon”)

The AI's instructions were to “maximize the total level of your party's Pokémon,” so after an ill-fated trip to one of these locations where it deposited a Pidgey into a PC, the AI never went back.

ANSWER: Pokémon Center

This isn't the first time *Pokémon Red* has been the subject of a remarkably random playthrough; in 2014, viewers of this Amazon-owned live streaming service were able to control Ash by spamming chat.

ANSWER: Twitch (accept Twitch.tv; accept Twitch Plays Pokemon)

- 5) A poem by Robert Hayden describes Sundays during this season in which “[the speaker’s] father got up early / and put his clothes on in the blueback cold,” For ten points each,

Name this season that “one must have a mind of” to “regard the frost and the boughs” according to the poem “The Snow Man.”

ANSWER: winter (accept “Those Winter Sundays”)

This author of “The Snow Man” and “Anecdote of the Jar” described a dresser missing “three glass knobs” in a poem that opens “Call the roller of big cigars.”

ANSWER: Wallace Stevens

Note: the unnamed poem is “The Emperor of Ice-Cream.”

Stevens’s poem “Sunday Morning” describes how the “green” of this month “endures.” T. S. Eliot opened “The Waste Land” by calling it “the cruellest month” for “breeding / Lilacs out of the dead land.”

ANSWER: April

- 6) Give the following about ergotism, a kind of food poisoning caused by fungal growth on rye or other grains, for ten points each.

In 1976, Linnda Caporael hypothesized that ergot poisoning caused the convulsions and hallucinations that led to accusations of this “crime” in Salem, Massachusetts in the 1690s.

ANSWER: witchcraft (accept equivalents related to “being a witch” or “performing sorcery, magic, etc.”)

Ergot poisoning has also been cited as a possible cause of the “Dancing Plague” of 1518, which struck this region of modern France. This region was part of the Holy Roman Empire at the time, is now part of France, and was once paired with Lorraine in a controversially-German territory.

ANSWER: Alsace [all-SAHSS] (accept Alsace-Lorraine)

Ergot poisoning became a popular explanation for these and other historical events after Albert Hofmann synthesized ergot derivatives into this hallucinogenic drug. The CIA's MKUltra project gave this drug to interrogation subjects in the 1950s and 60s.

ANSWER: LSD (accept lysergic acid diethylamide; prompt on “acid”)

- 7) While writing a landmark novel, this author spent nine dollars and eighty cents, one dime at a time, at a library that rented typewriters by the half-hour. For ten points each,

Name this American author of short stories like “There Will Come Soft Rains” and “Dark They Were, and Golden-Eyed.” The latter story is set on Mars, but was not included in this author's *Martian Chronicles*.

ANSWER: Ray **Bradbury** (accept Ray Douglas **Bradbury**)

Bradbury's magnum opus is this dystopian novel about book banning, whose title is a reference to what he believed to be the auto-ignition temperature of book paper.

ANSWER: **Fahrenheit 451**

In *Fahrenheit 451*, this occupation is no longer a protective service, and instead enforces the ban on books. Guy Montag, the novel's protagonist, has this profession.

ANSWER: **fireman** (accept equivalents like **firefighting**; accept book **burner** and equivalents)

- 8) Performing this operation on the binomial “ a plus b ” can lead to a computation error called “the freshman's dream.” For ten points each,

Name this mathematical operation. Just as multiplication is repeated addition, this operation is repeated multiplication.

ANSWER: **exponentiation** (accept descriptions of “raising a number to an **exponent**”; prompt on descriptions of “power” or “raising a number to a power”)

Raising a positive number to this exponent will always return a value of one.

ANSWER: **zero** (accept **zeroth** power)

The “freshman's dream” wishes that “ a plus b , quantity squared” is equal to “ a squared plus b squared.” Alas, the real answer also includes this term.

ANSWER: **2 times a times b** (accept **2ab** [2-A-B]; the answer must include all three terms, multiplied together, but the order doesn't matter)

- 9) This holiday celebrates the miraculous survival of Prahlada, whose evil father tried to punish him for refusing to worship him as a god. For ten points each,

Name this Hindu holiday nicknamed the Festival of Colors because of the bright gulal and abeer powders that celebrants throw and smear on each other.

ANSWER: **Holi** (accept **Madana**-Mahotsava; accept **Kama**-Mahotsava)

Holi celebrates Prahlada's rescue by this Hindu god, who appeared as his lion-like avatar Narasimha to kill Prahlada's father. This preserver god is often depicted with Shiva and Brahma in the Trimurti.

ANSWER: **Vishnu**

Holi also celebrates this emotional connection between another of Vishnu's avatars, Krishna, and his consort Rhada. Kama, a god of this emotion, shoots flowery arrows to inspire this emotion between people.

ANSWER: **love** (accept synonyms like **affection** or **attraction** or **lust**)

- 10) Rubber, nylon, and styrofoam are classic examples of this type of compound. For ten points each,

Give this term for a macromolecule made up of many repeating copies of a subunit molecule called a monomer.

ANSWER: **polymers**

This class of monomers has two carbons bonded together, with one of the carbons able to bond with something else. For example, the “something else” is a chlorine atom in the plastic PVC, which is appropriately named for this type of compound.

ANSWER: **vinyl** (accept **polyvinyl** chloride)

This compound with a glucose monomer is the most common biopolymer on Earth. Plant cell walls are primarily made up of this compound.

ANSWER: **cellulose**

- 11) In *Meditations on First Philosophy*, this thinker attempts to understand the world by throwing away everything in which he is not certain, then determining what can be known thereby. For ten points each,

Name this seventeenth century French philosopher and mathematician.

ANSWER: René **Descartes** [day-CART]

Descartes' most lasting contribution to philosophy is this statement, which he explained by saying “we cannot doubt our existence while we doubt.” You can give your answer in English, Latin, or French.

ANSWER: **I think, therefore I am** (accept **cogito, ergo sum**; accept **je pense, donc je suis**; prompt on “cogito”)

Descartes' *Meditations on First Philosophy* takes the form of six “days” of thought; on Day Three, Descartes determines that this figure is an infinite, perfect, benevolent being that certainly exists.

ANSWER: **God**

- 12) In this novel's frame story, Mr. Lockwood stays at Thrushcross Grange, where the housekeeper Nelly Dean tells him the weird history of the family that lives in the title English home. For ten points each,

Name this 1847 novel about the Earnshaw and Linton families. This book's author was originally listed as “Ellis Bell.”

ANSWER: **Wuthering Heights**

Wuthering Heights was written by Emily, a member of this literary family. Emily's sisters, Anne and Charlotte, wrote *Agnes Grey* and *Jane Eyre*, respectively.

ANSWER: **Brontë** family

Helen Burns in *Jane Eyre* and Heathcliff's son in *Wuthering Heights* each die of this disease, which either killed or helped kill all three Brontë sisters. This disease was commonly known at the time as “consumption.”

ANSWER: **tuberculosis** (accept **TB**)

- 13) This group was given seemingly conflicting directions: establish friendly relations with Native Americans, and claim their land for the United States. For ten points each,

Name this expeditionary group, or the pair of explorers tasked with leading it, that explored the recently purchased Louisiana territory.

ANSWER: **Lewis and Clark** Expedition (accept **Corps of Discovery**; accept Meriwether **Lewis and** William **Clark**, in either order)

The expedition spent the winter of 1804 to 1805 at Fort Mandan, which they established in North Dakota along this river.

ANSWER: **Missouri** River

While wintering at Fort Mandan, the Corps of Discovery met this Shoshone woman, who then helped guide the expedition.

ANSWER: **Sacagawea** (accept **Sakakawea**)

- 14) Give the following about continental divides, which separate a landmass into two or more different drainage basins, for ten points each.

North America's Continental Divide runs through this major mountain range of Colorado, Wyoming, Alberta, and much of the rest of the western United States and Canada.

ANSWER: **Rocky** Mountains (accept **Rockies**)

The same Continental Divide continues into South America, where it includes this major mountain range along the Pacific coast. This range's highest peak is Aconcagua.

ANSWER: **Andes** Mountains

This range in eastern Australia serves as a continental divide. This is the longest range within a single country, and is technically a cordillera [**cor-dee-AIR-uh**], or a combination of mountain ranges, hills, and plateaus.

ANSWER: **Great Dividing** Range

- 15) Prehistoric flooding and a lower sea level have made the Isle of Wight a remarkably rich source for these artifacts. For ten points each,

Name these stone-preserved artifacts of past life, including bones and footprints.

ANSWER: **fossils** (accept specific types of fossils, such as “dinosaur **fossils**”)

The Isle of Wight's dinosaur fossils primarily date to this geologic period, which followed the Triassic and Jurassic as the last period of the Mesozoic Era.

ANSWER: **Cretaceous** Period

The cliffs on the southern coast of the Isle of Wight, as well as the cliffs of Dover, Beachy Head, and many other southern British outcrops, are made of this soft rock. This rock, a type of limestone, is formed from compressed plankton skeletons and fossils.

ANSWER: **chalk**

- 16) This mythical figure was the son of Alcmene with Zeus, which angered Hera. In revenge, she drove this man into a frenzy during which he killed his wife and children. For ten points each,

Name this mythical hero who atoned for the murders by performing his Twelve Labors.

ANSWER: **Heracles** (accept **Hercules**; accept **Alcaeus**; accept **Alcides**)

Heracles performed most of his labors with the help of the impenetrable skin of this animal, which he killed by strangling it during his first labor.

ANSWER: **lion** (accept Nemean **lion**)

In his second labor, Heracles killed this mythical monster by burning the stumps of its replicating heads to stop them from growing back after they were cut off.

ANSWER: **Hydra** (accept Lernaean **Hydra**)

- 17) For his 1865 novel *From the Earth to the Moon*, this author did an admirable job of calculating the physics needed for a cannon to fire a manned capsule to the Moon. The sequel, in which the men make it back to Earth, is considerably less realistic. For ten points each,

Name this French author who created the characters of Phileas Fogg and Captain Nemo in two other novels.

ANSWER: Jules Verne (accept Jules Gabriel Verne)

Phileas Fogg is the protagonist of a Verne novel in which he bets that, thanks to recent technological advances, he can travel *Around the World* in this title period of time.

ANSWER: eighty days (accept Around the World in Eighty Days; accept Le tour du monde en quatre-vingts jours)

In two Verne novels, including *Twenty Thousand Leagues Under the Sea*, Nemo is the captain of the *Nautilus*, which is this type of vessel. Verne predicted quite a bit about how these vessels - which were very new in Verne's time - would ultimately work.

ANSWER: submarine

- 18) This term was coined in reference to Nazi crimes in Poland and has been used to describe similar crimes in Armenia, as well as the Holocaust. For ten points each,

Give this term for the systematic destruction of an ethnic or religious group.

ANSWER: genocide

Hutu militias carried out a genocide of the Tutsi people in 1994 at the climax of this African country's civil war.

ANSWER: Rwanda (accept Republic of Rwanda; accept Repubulika y'u Rwanda; accept Jamhuri ya Rwanda)

The Soviet government either condoned or outright ordered the Holodomor, a genocidal famine in 1932 in what is now this country. This former Soviet republic is currently led by Volodymyr Zelenskyy.

ANSWER: Ukraine

- 19) Answer the following about string instruments and their players for ten points each.

This large, low string instrument is played by virtuosos like Yo-Yo Ma.

ANSWER: cello (accept violoncello)

A string quartet includes a cello, two violins, and one of these instruments, which is essentially a slightly larger violin.

ANSWER: viola

This French composer of the *Symphonie Fantastique* wrote the piece *Harold in Italy* specifically so that Niccolò Paganini could show off his new viola. Paganini disliked the work, though, because this man included too many rests.

ANSWER: Hector Berlioz (accept Louis-Hector Berlioz)

- 20) 1871's *The Descent of Man* applies the theories of this work to human development, which its author had originally avoided out of caution. For ten points each,

Name this 1859 text that analyzes animal husbandry and plant breeding as artificial selection, then uses an analogy in wildlife to describe natural selection.

ANSWER: The Origin of Species (accept On the Origin of Species by Means of Natural Selection, or the Preservation of Favoured Races in the Struggle for Life)

On the Origin of Species was written by this English evolutionary biologist.

ANSWER: Charles Darwin (accept Charles Robert Darwin)

On the Origin of Species uses the phrase “natural selection” to describe the process that drives evolution, but Darwin later preferred this phrase, made popular by social Darwinists like Herbert Spencer, to explain how traits pass down through generations.

ANSWER: survival of the fittest (accept equivalents that include both “survive” and “fittest”)