

## SCOP Novice 13

# Round 1

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### Tossups

- 1) **Many organisms in this kingdom use a structural polymer called lignin. Gibberellins and auxins are hormones produced in these organisms, whose vascular type has two specialized tissues, (\*) xylem and phloem, that transport nutrients and water. Meristem tissue in these organisms can develop into either shoots or roots. Outdated classifications described fungi as, for ten points, what type of organism that typically uses photosynthesis to generate energy?**  
  
ANSWER: plants (accept Plantae)
- 2) **This ruler conquered the cities of Merv and Nishapur in his swift, two-year campaign against the Khwarezmian Empire, a war that may have killed fifteen million people. The lands of this husband of Borte were divided between his sons, like (\*) Jochi and Ogedai, into factions like the Golden Horde. Temujin was the birth-name of this ruler, who conquered much of Central Asia and China. For ten points, name this founder of the Mongol Empire and grandfather of Kublai Khan.**  
  
ANSWER: Genghis Khan (accept Temujin before it is read in the third sentence; prompt on “Khan” before it is read)
- 3) **One of this pair of researchers names a law describing the shifting of consonant sounds during the development of Germanic languages. This pair of literary researchers edited a collection of their works to replace a mother with an evil stepmother who wants to get rid of the children (\*) Hansel and Gretel. This pair of writers' *Children's and Household Tales* included German versions of “Cinderella” and “Rapunzel.” For ten points, name this pair of brothers known for their collection of fairy tales.**  
  
ANSWER: Grimm brothers (accept Brothers Grimm; accept Jacob Ludwig Karl and/or Wilhelm Carl Grimm)
- 4) **When CO<sub>2</sub> [C-Oh-two] dissolves in water, it reacts like one of these compounds, which is one reason that climate change is killing coral reefs. Salts of aluminum, boron, and iron react like these compounds by accepting pairs of electrons. These chemicals increase the amount of (\*) hydronium in water, making them “proton donors.” These chemicals’ formulas start with an H, as in H<sub>2</sub>SO<sub>4</sub> [H-two-S-Oh-four] or HCl [H-C-L]. For ten points, what compounds form solutions with pH [P-H] below 7 and react with bases?**  
  
ANSWER: acid

- 5) **An account of this battle by Susanna Dickinson led to the Runaway Scrape. Moses Rose supposedly refused to cross William Travis's line in the sand before this battle to signal a willingness to die. At the Battle of (\*) San Jacinto, a cry to “remember” this battle rallied troops to avenge the deaths of revolutionaries like Davy Crockett. For ten points, name this battle at a mission in San Antonio whose name became a rallying cry during the Texan Revolution.**

ANSWER: Alamo (accept Battle of the Alamo)

- 6) **Scoria is formed during these events, which also create tephra, a material that may be classified by particle size as lapilli or bombs. These events are classified as phreatic [free-AT-ick] when caused by superheated water, but common examples are usually magmatic instead. (\*) Pahoe-hoe [pah-hoh-ay-hoh-ay] and a'a [ah-ah] are two types of a substance emitted by these events during pyroclastic flow. For ten points, name these natural disasters that often involve flowing lava and falling ash.**

ANSWER: volcanic eruption (accept word forms and equivalents, like the eruption of a volcano; prompt on “volcano” or “eruption” alone)

- 7) **In one novel, this character disguises his friend as a girl while staying with his Aunt Sally and Uncle Silas. In a novel named for him, this character lives in Saint Petersburg, Missouri, where he proposes to both Amy Lawrence and (\*) Becky Thatcher; gets trapped in McDougal’s Cave while investigating a murder; and tricks his friends into paying him to “have fun” by whitewashing a fence for him. For ten points, name this mischievous young boy created by Mark Twain, the best friend of Huck Finn.**

ANSWER: Tom Sawyer (accept either underlined name; accept Thomas Sawyer)

- 8) **This religious figure was born after Queen Maya had a vision of a white elephant. This figure rejected his Kshatriya upbringing to preach at Sarnak Deer Park. Because he encountered the “four sights,” including (\*) dead, sick, and old men, this leader lived an ascetic life before embracing the Middle Way and speaking about the Noble Eightfold Path. For ten points, name this religious leader who described the Four Noble Truths after lengthy meditation, and who founded a namesake Indian religion.**

ANSWER: Buddha (accept Gautama Buddha or Siddhartha Gautama)

- 9) **This man declares, “We go our ways; I to die and you to live, and which is better god only knows” at the end of an *Apology* recorded by his student. “The unexamined life is not worth living,” according to this man's statement at his (\*) trial for corrupting the youth of Athens. A type of question-and-answer dialogue is named for, for ten points, what ancient Greek thinker who was sentenced to death by drinking hemlock and who taught Plato?**

ANSWER: Socrates

- 10) **These pieces consist of an introduction, one or more melodies called strains, a trio, a break strain, and a coda. The *Washington Post* sponsored one of these works written by the director of the U.S. (\*) Marine Band; that man also composed one of these musical pieces named for the Liberty Bell. John Philip Sousa's works like "The Stars and Stripes Forever" made him the "King" of, for ten points, what style of music often played by military bands?**

ANSWER: **march** (accept military **marches**)

- 11) **While vacationing on the coast of this U.S. state, Seymour Glass and Sybil Carpenter discuss catching a "Bananafish" in a story by J.D. Salinger. In Flannery O'Connor's Southern Gothic short story "A Good Man is Hard to Find," the Grandmother is annoyed that her son wants to travel to this state instead of (\*) Tennessee. In the novel *Their Eyes Were Watching God*, Tea Cake is attacked by a rabid dog during Hurricane Okeechobee in this state's Everglades. For ten points, name this state where author Zora Neale Hurston lived in Eatonville, near Orlando.**

ANSWER: **Florida**

Note: The first short story is "A Perfect Day for Bananafish"

- 12) **Shortly after a surprising success at the Battle of the Herrings, this figure went to Chinon to advise Charles VII [the seventh]. The siege of Compiègne [comp-YEN] attracted this figure's forces, but after forces from Burgundy captured this leader, a church trial accused (\*) her of heresy. Orleans [or-lay-ON] was saved during the Hundred Years War by, for ten points, what peasant girl who led French forces against the English before being burned at the stake?**

ANSWER: Saint **Joan of Arc** (accept **Jeanne d'Arc**; accept **Saint Joan**; prompt on "Joan" or "Jeanne")

- 13) **Help forums for this game are filled with failed attempts to save-scum the 99-difficulty "DOMINATE THE ELDER BRAIN" check. An Illithid tadpole parasite is implanted in the protagonist of this Larian Studios game, which has been praised as the best-ever implementation of the (\*) Fifth Edition rule set, particularly because of its turn-based combat and freedom of player choice. For ten points, name this 2023 Game of the Year contender set in the *Dungeons & Dragons* universe.**

ANSWER: **Baldur's Gate 3** (prompt on "Baldur's Gate")

- 14) **A classic textbook in this specific field of study includes five common notions, including "the whole is greater than the part," as well as twenty-three definitions and five postulates. Propositions studied in this field often involve a (\*) compass and straightedge. While it also discusses number theory, Euclid's *Elements* is a foundational textbook in, for ten points, what branch of mathematics that concerns the properties of points, lines, angles, and shapes?**

ANSWER: **geometry** (accept Euclidean **geometry**; prompt on "math" or "mathematics" before it is read)

- 15) **This artist's work was altered by a man who was nicknamed “The Breeches-Maker” for adding clothing to this artist's altar wall fresco in which a self portrait appears in the flayed skin of Saint Bartholomew. This artist of *The (\*) Last Judgement* painted scenes from Genesis, including *The Creation of Adam*, in which God reaches out with one finger toward a reclining man. For ten points, name this Renaissance Italian artist who painted the ceiling of the Sistine Chapel.**

ANSWER: Michelangelo (accept Michelangelo di Lodovico Buonarroti Simoni)

- 16) **This man is the highest ranking official seen in the Pete Souza photograph *Situation Room*, taken during Operation Neptune Spear. The killing of Anwar al-Awlaki was ordered by this man, the first time the (\*) U.S. government targeted one of its own citizens in a drone strike. Navy Seal Team Six carried out the assassination of Osama bin Laden on the orders of, for ten points, what man who served as U.S. president from 2008 to 2016?**

ANSWER: Barack Obama (accept Barack Hussein Obama)

- 17) **This force exerts the only torque on a cylinder that rolls on a plane without slipping. In its dry form, the magnitude of this force equals a coefficient symbolized lowercase (\*) mu times the normal force. This force causes the buildup of static electricity and also dissipates mechanical energy as heat. Lubricants are used to reduce, for ten points, what force that resists motion when two objects rub against each other?**

ANSWER: friction (accept frictional force)

- 18) **A poem titled for one of these animals describes its “tender voice” that makes “all the vales rejoice,” and repeatedly asks, “Dost thou know who made thee?” A poem about a different animal asks whether “He who made” this creature also created “The (\*) Tyger.” William Blake compared the baby Jesus to this “meek” and “mild” animal in a poem named for it. For ten points, name this baby animal that Blake described as having “softest clothing wooly bright.”**

ANSWER: The Lamb

- 19) **In a story from this culture, two men who survive the Cold House and the Fire House are burned by gods led by One-Death and Seven-Death, reform their bodies into catfish, and ultimately become the gods of the sun and moon. Hunahpu and Xbalanque [sh-bah-lahn-kay], this culture's (\*) Hero Twins, travel to the underworld, Xibalba [shee-ball-bah], and play the Mesoamerican Ball Game in a story recorded in the Popul Vuh. For ten points, name this culture whose Long Count Calendar turned over in 2012.**

ANSWER: Maya (accept Mayan people or Mayan civilization; accept Ki'che' Maya)

- 20) **Northern suburbs of this city include the home of Iona University, New Rochelle, as well as Yonkers in Westchester County. Western neighbors of this city include Fort Lee, on the other end of the (\*) George Washington Bridge, and Weehawken, on the other end of the Lincoln Tunnel; both are across the Hudson River from Manhattan. Queens and the Bronx are other boroughs of, for ten points, what most populous city in the United States?**

ANSWER: **New York** City (accept **NYC**)

## Bonuses

- 1) This man noted that “There is an amazing democracy about death...Death comes to the innocent and it comes to the guilty” in his “Eulogy for the Martyred Children.” For ten points each,

Name this minister and Nobel Peace Prize winner whose other speeches included “I’ve Been to the Mountaintop” and “I Have a Dream.”

ANSWER: Dr. Martin Luther **King**, Jr. (accept **MLK**)

King’s “Eulogy for the Martyred Children” was delivered at the funeral of three of the four girls who were killed in this city’s 16th Street Baptist Church in 1963.

ANSWER: **Birmingham**, Alabama

The 16th Street Baptist Church bombing was carried out by the Cahaba Boys, members of this hood-wearing terrorist group.

ANSWER: **Ku Klux Klan** (accept **KKK**)

- 2) This god’s name meant “twice-born” because Zeus saved him when his pregnant mother was burned alive. For ten points each,

Name this Greek god who carried the Thyrsus staff and was followed by the Maenads, who revered the wild prophetic inspiration that this god caused.

ANSWER: **Dionysus**

Dionysus was the son of Zeus and this mortal woman. Hera provoked this woman into asking to see Zeus in his full glory, which killed her.

ANSWER: **Semele** (accept **Thyone**)

Dionysus was associated with divine inspiration that his worshipers gained by drinking this substance. Dionysus was also the god of this intoxicating drink.

ANSWER: **wine** (prompt on “alcohol”)

- 3) This group of objects is divided into “inner” terrestrial planets and “outer” gas giants. For ten points each, Name this group of astronomical objects that include our sun and the planets and other objects that orbit it.

ANSWER: Solar System

The inner and outer sections of our solar system are divided by a namesake “belt” of these small astronomical objects, such as Vesta and Pallas.

ANSWER: asteroid (accept asteroid belt; do not accept or prompt on other small astronomical bodies like “comet” or “meteor”)

This is the largest object in the asteroid belt. It is sometimes described as the largest asteroid or as a dwarf planet, and was visited, along with Vesta, by the Dawn probe.

ANSWER: Ceres

- 4) In response to this event, England passed the 1351 Statute of Labourers, which tried to ban people from seeking higher wages than they made before this event. For ten points each, Name this fourteenth-century epidemic that reduced the population of Europe by possibly as much as fifty percent.

ANSWER: Black Death (accept bubonic plague epidemic; accept black plague epidemic; prompt on “plague;” prompt on “pestilence”)

The Black Death was, specifically, a breakout of bubonic plague, a bacterial disease that is spread by these rat-borne parasites.

ANSWER: fleas

Scholars commonly believe that the plague reached Europe when the Golden Horde catapulted infected corpses into the city of Caffa, which lies on this peninsula that juts out into the Black Sea.

ANSWER: Crimea (accept Crimean Peninsula)

- 5) Answer the following questions about the career of the artist Camille Claudel, for ten points each.

Claudé was an artist from this country, where she learned from fellow sculptors Alfred Boucher [Alfred boo-SHAY] and Auguste Rodin [ow-GOOST roh-DAN] in Paris.

ANSWER: **France** (accept **French** Republic; accept La **France**; accept République **française**)

Claudé did much of her work in this sculptural material that is often made from gypsum. This material can be used to make wax molds for bronze casting, and frescos are painted onto a wet layer of this material.

ANSWER: **plaster**

This masterpiece by Claudé was originally created in plaster, although a bronze copy was made later. In this sculpture, named for a ballroom dance in three-four time, a woman in a twisting skirt is entwined with a nude man.

ANSWER: **Waltz** (accept La **valse**; accept The **Waltzers** or Les **valseurs**; accept The **Waltz with Veils** or La **valse avec voiles**)

- 6) This player scored a very respectable fifteen points in his debut game, but his team lost to Luka Dončić [don-chich] and the Dallas Mavericks. For ten points each,

Name this highly touted Frenchman who began his NBA career as a teenage phenom in October 2023.

ANSWER: Victor **Wembanyama**

In summer 2023, Wembanyama was selected first overall in this annual process. All of the “Big Four” North American sports use this process to assign top rookies to teams, and three of the four precede this process with a lottery to determine which team picks first.

ANSWER: **draft** (accept NBA **Draft**)

This NBA team in Texas drafted Wembanyama, the first time they'd had the first overall pick since drafting Tim Duncan in 1997.

ANSWER: **San Antonio Spurs** (accept either or both names)



- 7) Give the following about Diophantine [dye-oh-FAN-teen] equations, for ten points each.

Any equation can be considered a Diophantine equation if the only answers you care about are this type of number. This set of numbers includes zero, all positive whole numbers, and all negative whole numbers.

ANSWER: integers

This seventeenth-century French mathematician once scribbled in a textbook of Diophantine equations, complaining that he had a marvelous new proof that just wouldn't fit in the margin. After it was finally proven in the 1990s, that claim became known as this man's "Last Theorem."

ANSWER: Pierre de Fermat

Fermat's Last Theorem says that there are this many solutions to the Diophantine equation " $a$  to the  $n$ , plus  $b$  to the  $n$ , equals  $c$  to the  $n$ " when  $n$  is greater than two.

ANSWER: zero (accept descriptions of "there are no solutions" or "it's impossible")

- 8) Give the following about everyone's favorite artificial flavoring, isoamyl acetate [EYE-so-AM-ul ASS-uh-tate], for ten points each.

Isoamyl acetate smells remarkably like this fruit. The Gros Michel [groh me-shell] variety of this fruit has more isoamyl acetate than the more common Cavendish variety, which explains why this fruit's common artificial flavor doesn't really taste like this fruit.

ANSWER: bananas

Like many artificial flavorings, isoamyl acetate is this type of organic compound. These molecules have a carbon atom double-bonded to one oxygen atom and single-bonded to another, and they are known for, generally, smelling really good.

ANSWER: esters

Isoamyl acetate can also be produced by yeast during this process, which may give your yogurt, wine, beer, or kombucha a slightly fruity flavor.

ANSWER: fermentation (accept word forms like fermenting)

- 9) This boy angers Jack and Jack's tribe by shouting “Which is better - to have rules and agree, or to hunt and kill?”  
For ten points each,

Name this boy, an ally of Ralph whose glasses are used to build a signal fire on a remote island in a classic 1954 novel.

ANSWER: **Piggy**

Piggy, Ralph, and Jack are among the stranded boys in this William Golding novel. Its title is a translation of the name Beelzebub.

ANSWER: **Lord of the Flies**

In *Lord of the Flies*, the boys initially create some semblance of society by agreeing that whoever holds this tropical object is allowed to speak during their meetings. The constraint eventually causes Jack to split off from the group in frustration.

ANSWER: **conch** (accept seashell)

- 10) The coldest temperature ever recorded on Earth was observed on this landmass at Vostok Station in 1983. For ten points each,

Name this landmass that is surrounded by the Southern Ocean.

ANSWER: **Antarctica**

The territory of Antarctica is claimed by seven different countries, including Argentina and Chile in South America, three European countries, and this Southern Hemisphere country with capital Wellington.

ANSWER: **New Zealand** (accept **Aotearoa**)

The largest human community in Antarctica is this American research station, found on Ross Island in a namesake Sound.

ANSWER: **McMurdo** Station (accept **McMurdo** Sound)

- 11) A monument that is decidedly not dedicated to this man, but to his boot stands in Saratoga National Historical Park. For ten points each,

Name this American Major General who was a war hero at Saratoga, then completely threw away his legacy by attempting to betray the Continental Army to the British.

ANSWER: Benedict Arnold

After his leg injury ended his fighting career, Arnold was given command of this outpost on the Hudson River. Arnold's failed treachery was an attempt to deliver this fort to the British.

ANSWER: West Point (accept Fort Clinton)

Arnold's wife, Peggy Shippen, placed him in contact with this British officer, who was captured with the papers that incriminated Arnold in September 1780.

ANSWER: John André

- 12) The invented religion of Bokomonism and the Church of God the Utterly Indifferent are found in this author's novels *Cat's Cradle* and *The Sirens of Titan*, respectively. For ten points each,

Name this American author, a self-proclaimed “Christ-loving atheist” who survived the firebombing of Dresden during World War II and wrote about it in a 1969 novel.

ANSWER: Kurt Vonnegut, Jr.

Billy Pilgrim is a reluctant chaplain's assistant who becomes “unstuck in time” in this Vonnegut novel, his most famous work.

ANSWER: Slaughterhouse Five (accept Slaughterhouse Five or, The Children's Crusade: A Duty-Dance with Death)

In Vonnegut's last novel, *God Bless You, Dr. Kevorkian*, he uses strictly controlled euthanasia to briefly visit this location dozens of times, where he interviews people like Sir Isaac Newton, Eugene V. Debs, and William Shakespeare.

ANSWER: Heaven (prompt on “the afterlife” and similar equivalents; do not accept “Hell”)

- 13) The Greek letter lambda has a bunch of different uses in physics. Answer some questions about it, for ten points each.

Most familiarly in introductory physics classes, lambda symbolizes this quantity, the distance between two crests on a wave. This quantity and frequency are inversely related.

ANSWER: wavelength

This German physicist used a capital lambda to indicate the “cosmological constant,” a concept that he briefly incorporated into his field equations.

ANSWER: Albert Einstein

The lambda point is the temperature, roughly 2 Kelvin, at which atoms of this element exhibit superfluidity.

ANSWER: helium-4 (accept He)

Note: Helium is the only element known to exhibit superfluidity, though hydrogen might be able to do it.

- 14) This religious period of penitence and solemn reflection extends from the first to the tenth days of the lunar month of Tishrei. For ten points each,

Name this set of ten days at the beginning of the Jewish new year, beginning with Rosh Hashanah and ending with the day of atonement.

ANSWER: High Holy Days (accept Days of Awe; accept Ten Days of Penitence or Ten Days of Repentance; accept High Holidays; accept Yamim Nora'im; accept Aseret Yeme Teshuva)

The High Holy Days conclude with this day of atonement that is observed by wearing white and denying all material comforts.

ANSWER: Yom Kippur (accept Yom HaKippurim)

Denying material pleasures on Yom Kippur includes this act of abstaining from eating or drinking.

ANSWER: fast (accept ta'anit or ta'anis)

- 15) This field of study is unique among the Nobel Prize disciplines in that it was established by the central bank of Sweden, not the will of Alfred Nobel. For ten points each,

Name this social science that studies how people create, provide, and use goods and services.

ANSWER: economics

The 2022 Nobel in Economics was awarded to three American scholars of financial crises, including this man who won for his analysis of the Great Depression. This man served as Chair of the Federal Reserve from 2006 to 2014.

ANSWER: Ben Bernanke [ber-nan-kee] (accept Ben Shalom Bernanke)

Claudia Goldin won the 2023 Nobel in Economics for studying the women's labor market, with a particular focus on this concept. In the United States, this quantity is typically about twenty percent meaning that, on average, women make eighty cents for every dollar made by men.

ANSWER: gender pay gap (accept gender wage gap)

- 16) This literary character buys embalmed human heads in the south seas and sells them on Nantucket as curios. For ten points each,

Name this character whose tattoos and tomahawk-pipe alarm his bed-mate at Peter Coffin's inn.

ANSWER: Queequeg

Queequeg serves as a harpooner aboard the *Pequod* and helps Captain Ahab pursue the title whale in this novel by Herman Melville.

ANSWER: Moby Dick (accept Moby Dick; or, The Whale)

Queequeg's bed-mate at Peter Coffin's inn is this narrator of *Moby Dick*, who asks the reader, “call me” this name.

ANSWER: Ishmael

- 17) The key of C major has no sharps or flats in its key signature; correspondingly, the minor key named for this note has no sharps or flats. For ten points each,

Name this note that is one half-step lower than B-flat.

ANSWER: A natural (do not accept or prompt on “A sharp” or “A flat”)

In a concert, an orchestra will typically enter the stage, then collectively do this action before playing the first piece. To do this, one instrument plays a baseline note that is often an A at a frequency of 440 Hertz.

ANSWER: tune (accept word forms like tuning)

This instrument commonly plays the tuning A. The swan theme in *Swan Lake* is introduced by this instrument.

ANSWER: oboe

- 18) Organic chemistry is the study of compounds involving this element, the backbone of living matter. For ten points each,

Name this element with atomic number 6.

ANSWER: carbon (accept C)

The most basic organic compounds are hydrocarbons, consisting of carbon and hydrogen. This simplest hydrocarbon, with one carbon atom and four hydrogen atoms, is the primary component of natural gas and a powerful greenhouse gas.

ANSWER: methane (accept CH<sub>4</sub> [C-H-four])

Molecules in this class of organic compounds have carbon, hydrogen, and oxygen atoms, typically in a one-to-two-to-one ratio. In nutrition, this term is part of a classification system that also includes proteins and fats.

ANSWER: carbohydrates (prompt on “carb”)

- 19) Give the following about people who were or are unwelcome at Disney properties, for ten points each.

In 2001, Kim Jong-nam, the son of this country's ruler Kim Jong-Il, was detained in Japan's Narita International Airport for using a forged passport in his attempt to visit Tokyo Disneyland.

ANSWER: **North Korea** (accept **Democratic People's Republic of Korea**; accept **DPRK**; accept **Choson Minjujuui Inmin Konghwaguk**; prompt on “Korea”)

This Soviet leader asked “What is it, do you have rocket-launching pads there?” when told that for “security reasons,” he would not be allowed to visit California's Disneyland during his 1959 visit to the US.

ANSWER: Nikita **Khrushchev** (accept Nikita Sergeyevich **Khrushchev**)

Due to the signing of a controversial “Don't Say Gay” law and various ensuing legal disputes with The Walt Disney Company, this state's current governor, Ron DeSantis, probably wouldn't get a warm welcome at Orlando's Walt Disney World.

ANSWER: **Florida**

- 20) Give the following about the twelfth-century poet Omar Khayyam for ten points each.

Omar Khayyam's poetry was typically written in the form of ruba'i [roo-bye], each of which has this many lines and is thus translated into English as either two couplets or one quatrain.

ANSWER: **four**

Omar Khayyam wrote his poetry in Persian, the official language of this modern-day country.

ANSWER: **Iran** (accept Islamic Republic of **Iran**; accept Jomhuri-ye Eslâmi-ye **Irân**)

Possibly the most famous of Khayyam's rubaiyat [roo-bye-yat] lists a loaf of bread, a book of verse, and a jug of this drink as requirements for paradise on Earth. The Chinese poets Li Bai and Du Fu were known as “Immortals” of this drink.

ANSWER: **wine** (accept Immortals of the **Wine** Cup)