

2011 SCOP Novice

Round 6

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TOSSUPS

1. **This god asked worms to bore holes in a conch to make a trumpet, and his blood was used to form the fifth world. As a consequence for sleeping with his sister, this god was exiled by Tezcatlipoca [tet-SCOT-lee-POH-kah] and condemned to float on a raft of snakes. He brought fire from Mictlan [meek-t-lahn] with the help of his twin brother, (*) Xolotl [zoh-LAH-tuhl]. Symbolized by the morning star and once confused with Hernan Cortez, for 10 points, name this feathered-serpent Aztec god.**

Answer: Quetzalcoatl

2. **In one novel by this author, Buddy helps tell the story of the Glass family after his sister starts chanting the “Jesus prayer.” In addition to *Franny and Zooey*, this author wrote a novel in which a young protagonist goes out with Sally Hayes, visits Mr. (*) Antolini, and tries to protect his sister, Phoebe, after being expelled from Pencey Prep. For 10 points, name this author who wrote about Holden Caulfield in *The Catcher in the Rye*.**

Answer: J(erome) D(avid) Salinger

3. **One of this group's main weapons was the yumi, a longbow which they used on horseback. Their techniques form the basis of Kendo, and former members of this class took part in the (*) Satsuma rebellion. Their status as their nation's only armed force was ended by Emperor Meiji, and they soon lost their right to wear the katana in public. Their code of conduct was eventually formalized into Bushido. For 10 points, name this Japanese warrior caste.**

Answer: samurai

4. **One type of this geologic feature separates horsts and grabens from each other. Low dip angles can lead to stratigraphic position changes in the thrust variety of these. The strike-slip variety can move laterally, as in the New (*) Madrid set of these in the US Midwest. For 10 points, name these geologic features related to plate boundaries, including California's San Andreas, where energy buildup is released in the form of earthquakes.**

Answer: faults

5. **This battle's end was hastened by General A.P. Hill's reinforcements from Harper's Ferry. Prior to this battle, a copy of orders from General Lee was found by Union soldiers, but McClellan failed to capitalize on them. Although it was a tactical draw, this battle gave (*) Lincoln a chance to issue the Emancipation Proclamation. The bloodiest one-day battle in American history, for 10 points, name this 1862 Civil War battle in Maryland.**

Answer: Battle of Antietam (or Battle of Sharpsburg)

6. While at Bayreuth [bay-ROYT], this composer wrote the symphonic poem *Francesca da Rimini*. He wrote an unnumbered symphony inspired by a Lord Byron poem, *Manfred*, and while he's not Prokofiev, this Russian wrote an orchestral version of *Romeo and Juliet*. His sixth and last symphony includes a (*) five-four waltz, and another work includes carillon bells and cannonfire. For 10 points, name this composer of the *Pathetique* [pah-theh-TEEK] Symphony and the *1812 Overture*.

Answer: Peter Ilyich Tchaikovsky (or Pyotr Ilyich Tchaikovsky)

7. With Smolchowski, this scientist names an equation that relates the diffusion constant to particle mobility and temperature. In one of his *Annus Mirabilis* papers, he posited the ideas of time dilation and length contraction, and in a later theory developed (*) 10 namesake "field equations" to describe the force of gravity. For 10 points, name this formulator of special and general relativity, famous for developing the equation E equals mc squared.

Answer: Albert Einstein

8. Kurt Schneider's first-rank symptoms help identify this disorder from other mental conditions, and Emil Kreplin first deemed this disease "dementia praecox" [pre-cox]. Types of this disorder include (*) catatonic, paranoid and disorganized, and it is treated by lowering dopamine levels. For 10 points, name this mental disorder featuring auditory hallucinations, from the Greek for "split mind," often mistaken for split personality disorder.

Answer: schizophrenia

9. Gil Garcetti claimed this trial was moved due to damage from the Northridge earthquake the prior year. Detective Mark Fuhrman perjured himself during this trial, which was judged by Lance Ito. Regarding the deaths of Ron Goldman and (*) Nicole Brown, it saw Johnny Cochran note that if a leather glove didn't fit, "you must acquit." For 10 points, name this 1995 "Trial of the Century," which saw a former NFL running back acquitted of murder.

Answer: People of the State of California v. Orenthal James Simpson (accept anything mentioning O. J. Simpson being criminally tried for murder; don't accept anything about a civil trial or any other crime)

10. This playwright's works include one in which Jurgen Tesmen's wife shoots herself after a conversation with Judge Brack, and another whose musical adaptation features "Solveig's Song" and "In the Hall of the Mountain King." In addition to *Hedda Gabler* and (*) *Peer Gynt*, another of this man's plays sees Krogstad's interference destroy the home life of Torvald and Nora Helmer. For 10 points, name the Norwegian playwright of *A Doll's House*.

Answer: Henrik Ibsen

HALF TIME

11. **Kuzunoha [koo-zoo-no-hah] is one of these creatures, and takes the form of a woman in a Japanese legend. Aesop wrote stories about this animal paired with a sick lion and a crane, and this creature works with Tommy Brock in a story by Beatrix Potter. This creature is known as (*) kitsune [kee-tsoo-nay] in Japan and as Tod in England, and is the title subject of the Reynard cycle in France. For 10 points, name this archetypical trickster, a red, bushy-tailed mammal.**

Answer: foxes (accept kitsune or spirit-fox before “Aesop” is read)

12. **Stirling’s approximation is used to calculate very large terms of this operation. The reciprocals of its terms converge to e , and this operation is defined at zero as one. It is used in the formula for (*) permutations and combinations, and the number of ways to arrange n elements is given by this function of n . For 10 points, name this operation where consecutive numbers are multiplied together, symbolized by an exclamation point.**

Answer: factorial (prompt on exclamation point before mentioned)

13. **At this MLB team’s home games, former reliever Mike Fetters illegally sells fondue cheese and fried eggs. Bernie Mac’s character in Mr. 3000 plays for this team, whose radio play-by-play man since 1978 has been Bob Uecker [yoo-kerr]. In 2003, Randall Simon swung a bat at the (*) Hot Dog as it ran in this team’s 7th inning Sausage Race at Miller Park. For 10 points, name this baseball team, whose name reflects Wisconsin’s love of beer.**

Answer: Milwaukee Brewers (accept either or both names; accept Miller Park before mentioned)

14. **One element in this group forms stable difluoride, tetrafluoride, and hexafluoride compounds. Another member of this group is the third most abundant gas in the Earth’s atmosphere at approximately (*) 1%. Yet another element in this group has a nucleus that forms the alpha particle, and these elements all have full valence shells. For 10 points, name this group of non-reactive elements that includes xenon, argon, and helium.**

Answer: noble gases

15. **This person, the subject of “Decet Romanum Pontificem,” wrote a pamphlet entitled “Murderous, Thieving Hordes of Peasants” and drafted the Schmalkald Articles. Threatened with excommunication by *Exsurge domine*, he discussed the (*) Eucharist at the Marburg Colloquy but is most known for his displeasure with the Catholic practice of selling indulgences. For 10 points, name this author of the 95 Theses.**

Answer: Martin Luther

16. **A mutation on chromosome 15 in the *HEXA* gene renders an enzyme present in this organelle defective, causing Tay-Sachs disease. The proteases and lipases within this organelle function optimally in an (*) acidic environment, protecting the alkaline cytosol if the membranes of these are damaged and leak. For 10 points, name these organelles containing hydrolytic enzymes that digest old cellular organelles and break down macromolecules.**

Answer: lysosomes

17. Two panels of this material form Duchamp's *The Bride Stripped Bare by Her Bachelors, Even*. Millennium Park's *Crown Fountain* is made of blocks of this material, and I.M. Pei used triangular panels of this material in the (*) Rock and Roll Hall of Fame and a pyramid in front of the Louvre. Colored pieces of this appear in Tiffany lamps. For 10 points, name this transparent material, used to make spectacles and "stained" windows.

Answer: glass

18. This work's title character falls ill in a prison, under the care of Mr. Kirwin, and Justine Moritz is accused of murdering William. The title man's only mourner tells Robert Walton that he will die in the Arctic. In this novel, (*) Elizabeth is strangled on her wedding night, and Henry Clerval is brutally murdered by the title scientist's creation. For 10 points, name this novel subtitled "The Modern Prometheus," a work by Mary Shelley.

Answer: Frankenstein, or The Modern Prometheus

19. The ancient city of Sigiriya lies in this island's center, and Adam's Bridge connects it to the mainland. Its Horton's Plains National Park includes Adam's Peak, and its southern city of Galle was devastated in the 2004 Indian Ocean tsunami. Sinhalese Buddhists are the majority here, and (*) Tamil separatists recently laid down arms here. Formerly known as Ceylon and with capital at Colombo, for 10 points, name this island nation southeast of India.

Answer: Sri Lanka

20. Items that follow these laws very closely may be called "glatt," while items that violate them are called "trayf." Neutral foods under them are called "parev" and include fish, which must have fins and scales; therefore, (*) shellfish are not permitted under these laws, which demand the separation of meat and dairy foods. Animals must have cloven hooves and chew cud to be eaten by subscribers to, for 10 points, what set of Jewish dietary laws that forbid the consumption of pork?

Answer: laws of kashrut (accept kosher laws)

BONUSES

1. He was defeated at the Battle of Chalons [sha-LONE] and convinced not to sack Rome by Pope Leo I. For 10 points each,

[10] Name this conqueror who rose to power over the Huns after murdering his brother Bleda.

Answer: **Atilla** the Hun

[10] Atilla's Huns have been postulated to be descendants of the Xiongnu [chee-ong-noo], a nomadic people who fought Emperor Wu of this Chinese Dynasty.

Answer: **Han** dynasty

[10] Other Asian invaders of Europe include this group led by Arpad, who were defeated at Lechfield by Otto the First. Stephen the First, known as "the Saint," was this peoples' first king.

Answer: **Magyars** (accept **Hungarians**)

2. For 10 points each, identify some elements of ancient Egyptian burials.

[10] Ancient Egyptians often used amulets shaped like these animals, also known as dung beetles, who were associated with Ra.

Answer: **scarabs**

[10] These containers often had lids representing the sons of Horus, and held the liver, intestines, lungs, and stomach of a mummified person.

Answer: **canopic** jars or boxes

[10] This ibis-headed god of knowledge recorded the weighing of a person's heart in the afterlife.

Answer: **Thoth** (accept Djehuty; be lenient with pronunciation)

3. Identify some British poets, for 10 points each.

[10] This poet worked with Coleridge on the *Lyrical Ballads*, and wrote "I Wandered Lonely as a Cloud" and "Tintern Abbey."

Answer: William **Wordsworth**

[10] *Endymion* [en-DIM-ee-on] and "Ode on a Grecian Urn" are by this Romantic poet.

Answer: John **Keats**

[10] This satirical poet mocked his contemporaries in the *Dunciad* and described the Baron stealing a piece of Belinda's hair in *The Rape of the Lock*.

Answer: Alexander **Pope**

4. Sublimation bypasses this phase. For 10 points each,

[10] Name this phase of matter that transitions to a gas at the boiling point.

Answer: **liquids**

[10] This class of compounds, including detergents, lowers the surface tension of a liquid.

Answer: **surfactants**

[10] Surfactants can form these aggregates in liquid upon reaching a critical concentration. They usually consist of hydrophilic head regions forming a sphere in contact with the surrounding solvent, while the hydrophobic tail regions occupy the center of the sphere.

Answer: **micelles**

5. This colony was home to America's first Baptist church. For 10 points each,
[10] Name this colony, which began with the founding of the religiously tolerant Providence Plantations by Roger Williams.

Answer: **Rhode Island** and the Providence Plantations

[10] The original capital of this colony was given a name that means "city of brotherly love." This colony was founded by its namesake as a safe haven for Quakers.

Answer: **Pennsylvania** (accept Province of **Pennsylvania**)

[10] This man established Maryland as a colony for Catholics to avoid persecution.

Answer: Cecil (or Cecilius) **Calvert**, 2nd Lord (or Baron) **Baltimore** (accept either or both underlined parts)

6. This novel begins with the protagonist asking the reader to call him Ishmael. For 10 points each,

[10] Name this novel, in which Ahab captains the Pequod in pursuit of the title white whale.

Answer: **Moby-Dick**, or The White Whale

[10] This author of *Moby-Dick* also wrote "Bartleby the Scrivener" about an office worker who simply "would prefer not to."

Answer: Herman **Melville**

[10] In this Melville novel, the title sailor is convicted of the accidental murder of Claggart aboard the *Bellipotent*, and says, "God bless Captain Vere," as he prepares to be hanged.

Answer: **Billy Budd**, Sailor

7. The singer notes that "there's a fire starting in my heart," and laments that "we could have had it all." For 10 points each,

[10] Name this 2011 hit single by Adele [uh-DELL].

Answer: **"Rolling in the Deep"**

[10] This album, the follow-up to 2009's *19*, features "Rolling in the Deep" as well as "Someone Like You."

Answer: **21**

[10] Another single off *21* sees the singer "Set Fire to" the title entity. In a Beatles song, if this entity comes, "they run and hide their heads," and Prince sang of a "Purple" variety.

Answer: **rain**

8. Operatic roles in this range include the title character of Donizetti's *Don Pasquale* as well as Don Pedro in *Don Giovanni*. For 10 points each,

[10] Name this lowest of the four choral vocal ranges.

Answer: **bass** (do not accept baritone)

[10] The title role in this duo's *The Mikado* is a bass; other comic operettas by this pair of Englishmen include *The Pirates of Penzance* and *H.M.S. Pinafore*.

Answer: Sir William S. **Gilbert** and Sir Arthur **Sullivan** (accept in either order)

[10] Henry Kissinger is a bass role in this John Adams opera. A related symphonic work, *The Chairman Dances*, sees Chairman Mao dance the foxtrot.

Answer: **Nixon in China**

9. When cells divide, each daughter cell contains the same genetic material. For 10 points each:

[10] Name this process in which a cell undergoing mitosis duplicates its genetic material. During this process, helicase splits hydrogen bonds between adenine, thymine, guanine, and cytosine.

Answer: DNA **Replication**

[10] DNA is arranged in this structure. James Watson and Francis Crick received the 1962 Nobel Prize in medicine for its discovery, and base pairs are bonded to this structure's sugar-phosphate backbone.

Answer: **double helix**

[10] Since polymerase can only replicate DNA in one direction, ligase connects these partially completed pieces of replicated DNA on the lagging strand. They're named after the Japanese scientists who discovered them.

Answer: **Okazaki Fragments**

10. For 10 points each, name some works by an Italian Renaissance artist.

[10] This iconic painting depicts an eyebrow-less woman with an "enigmatic smile," sitting with her hands folded on her lap.

Answer: La **Giaconda** (accept **Mona Lisa**)

[10] This man painted *La Giaconda*, as well as *The Virgin of the Rocks* and *The Last Supper*.

Answer: **Leonardo da Vinci** (accept either underlined answer)

[10] Da Vinci's notebooks contain this anatomical sketch representing the proportions of a human body inscribed on a square and a circle.

Answer: **Vitruvian** Man (accept **Universal** Man)

11. For 10 points each, give the following about attempts to ease the Great Depression.

[10] This is the collective term for the programs created during Franklin Roosevelt's first term, including the first 100 days. It included the Tennessee Valley Authority and Works Progress Administration.

Answer: **New Deal**

[10] This New Deal agency guarantees that deposits in associated banks will be protected from loss by the "full faith and credit" of the US government.

Answer: **Federal Deposit Insurance Corporation**

[10] This 1933 law, named for two Democratic senators, created the FDIC. It also notably forbade commercial banks from many investment activities, a measure repealed in 1999.

Answer: **Glass-Steagall** Act (prompt on "Banking Act of 1933;" accept logical equivalents for Act, including Bill and Law)

12. Banked turns on roller coasters and planetary orbit rely on this force. For 10 points each:

[10] Name this force that points toward the center of curvature, contrasted with centrifugal [sen-TRIH-fu-gahl] force.

Answer: **centripetal** [sen-TRIH-pih-tul] force

[10] The instantaneous velocity of an object traveling in a circular path has this direction relative to a line drawn from the object to the center of the circle.

Answer: **perpendicular** or **orthogonal** or **normal** or at a **right angle** (accept **ninety** degrees or **pi/2** radians)

[10] Centripetal forces are vector quantities which can be visualized using this rule for understanding vectors in three dimensions.

Answer: **Right hand** rule

13. He split from the Catholic Church to divorce Catharine of Aragon. For 10 points each,

[10] This English king executed Catharine Howard and Anne Boleyn, two of his six wives.

Answer: King **Henry VIII** (prompt on Henry)

[10] This son of Henry the Eighth by Jane Seymour succeeded his father. He died at the age of fifteen and was succeeded by Lady Jane Grey for nine days, then his half-sister Mary I.

Answer: King **Edward VI** (prompt on Edward)

[10] Mary was succeeded by this other daughter of Henry, called "the virgin queen" as she never married. Under her rule, England crushed the Spanish Armada.

Answer: Queen **Elizabeth I** (prompt on Elizabeth)

14. He influenced America's founding fathers with his concept that there is a natural right to defend one's "life, health, liberty, or possessions." For 10 points each,

[10] Name this philosopher, the author of *Two Treatises of Government* and *An Essay Concerning Human Understanding*.

Answer: John **Locke**

[10] Locke pioneered the British form of this theory, in which knowledge is derived from experiences.

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

[10] Locke was a proponent of this concept, Latin for "blank slate," which holds that individuals are not born with, but instead must develop, the ability to process information.

Answer: **Tabula Rasa**

15. The character Frederic Henry was inspired by his creator's experiences as an ambulance driver in World War I. For 10 points each,

[10] Name this novel, in which Lieutenant Henry falls in love with Catherine Barkley, a nurse who later dies in childbirth.

Answer: A **Farewell to Arms**

[10] In this work, Santiago battles a giant marlin for 3 days and nights before bringing its bare bones to shore, where he falls asleep dreaming of lions.

Answer: The **Old Man and the Sea**

[10] This American author of *A Farewell to Arms* and *The Old Man and the Sea* also wrote about Nick Adams in stories like "The Killers" and "Big Two-Hearted River."

Answer: Ernest **Hemingway**

16. It includes shahada, a creed professing monotheism, and some denominations of Shi'a add Walayah to this list. For 10 points each,

[10] Name this numbered collection of obligations that every Sunni Muslim must follow.

Answer: **Five Pillars** of Islam (prompt on Pillars)

[10] The pillar of Salat dictates that a Muslim must pray this many times every day.

Answer: **5**

[10] This pillar is that of charity or alms-giving, either in monetary form or in good deeds and good faith towards others.

Answer: **Zakat**

17. For 10 points each, give the following about the beginning and end of the universe.

[10] In this cosmological event, an infinitely dense singularity preceded the creation and ensuing cosmic inflation of the universe.

Answer: **Big Bang**

[10] The universe is filled with this type of radiation, which provides powerful support for the Big Bang theory. This radiation corresponds to the wavelength of electromagnetic radiation left by black bodies at 2.7 degrees Kelvin.

Answer: cosmic **microwave background** radiation

[10] On the other hand, one possible outcome for the *end* of the universe is this situation, where entropy is maximized and no work - including that to maintain life -can be performed.

Answer: **Heat death** of the universe

18. Name some Asian poets for 10 points each.

[10] This Russian author of *Lolita* wrote the novel *Pale Fire* in the form of a 999-line poem.

Answer: Vladimir **Nabakov**

[10] This Persian poet wrote that he desired "A book of verses underneath the bough / A loaf of bread, a jug of wine, and thou" in the *Rubiyat*.

Answer: Omar **Khayyam**

[10] This Tang dynasty poet wrote "The River Merchant's Wife" and was called one of the Eight Immortals of the Wine Cup by Du Fu.

Answer: **Li** Po (accept Li Bo or Li Bai; prompt on partial answer that does not include "Li")

19. Platonic solids are polyhedrons whose shapes are all the same regular polygon. For 10 points each,

[10] This platonic solid has 12 vertices; its faces are 20 equilateral triangles.

Answer: regular **icosahedron**

[10] A characteristic named for this mathematician is the number of vertices plus the number of faces minus the number of edges; it is equal to 2 for any convex polyhedron.

Answer: Leonhard **Euler** [OY-lur] (accept **Euler** characteristic)

[10] This mathematical construct has an Euler characteristic of 1; it can be modeled by a loop of paper with a half twist.

Answer: **Möbius** strip (accept **Möbius** band)

20. On October 20, 2011, the National Transition Council took the city of Sirte [surt]. For 10 points each,

[10] Name this African nation, whose cities of Bani Walid and Tripoli have seen combat in an ongoing civil war.

Answer: **Libya**

[10] The major opposition of the NTC was this dictator of Libya, who was killed during the fighting in Sirte. He had gone into hiding there after rebel forces invaded his compound, the Bab al-Azizia.

Answer: Muammar **Gaddafi** [gah-dah-fee] (there are infinite different spellings of Qaddafi's last name)

[10] This city, the second largest in Libya and the headquarters of the NTC, was one of the first to remove itself from Gaddafi's control.

Answer: **Bengazhi**