

2015 SCOP Novice 6

Round 6

Waleed Ali • Alston Boyd • Brad Fischer • Clare Keenan • Alec Krueger • Mike Laudermitth
Elissa Pape • Anna Phillips • Allison Salach • Andrew Salij • Kristin A. Strey • Tyler Vaughan
Morgan Venkus • Mike Withey • Michael H. Wong

Tossups

1. **This man orchestrated a war with Denmark over Schleswig-Holstein, and in another incident, this man provoked France into declaring war by editing the Ems Dispatch. In the resulting conflict, this man's country seized (*) Alsace-Lorraine. This man argued for higher military budgets, stating that the "great questions of the time" would be answered with "blood and iron." For 10 points, name this man who helped Wilhelm I unite Germany as the "Iron Chancellor."**

Answer: Otto Eduard Leopold, Prince of Bismarck, Duke of Lauenburg (accept Otto von Bismarck)

2. **The bookshelves of this work's protagonist include the *Vigiliae Mortuorum* of a "forgotten church," and the protagonist plays "The Haunted Palace" on his guitar for this story's narrator. The narrator hears the shriek of a dragon while reading a story to (*) Roderick, but the sound turns out to be Madeline, who escapes from her tomb to die with her brother in this story. For 10 points, name this short story by Poe in which the title "House" crumbles.**

Answer: The Fall of the House of Usher

3. **By passing through this waterway at the Camarinal Sill, the Zanclean Flood ended a salinity crisis. Jebel Musa, just west of Ceuta [thay-oo-tah], is thought to be one of the "Pillars of (*) Hercules" on the southern side of this waterway. A proposed tunnel connecting Spain and Morocco would travel under, for ten points, what strait that connects the Atlantic Ocean and Mediterranean Sea?**

Answer: Strait of Gibraltar

4. **Systems with this property are modeled in a lattice of plus one and minus one spin states. This subject of the Ising model emerges when Weiss domains are aligned, but disappears above the Curie temperature. Due to (*) hysteresis, this property remains even after the device that induced it is removed, and this is the mechanism that allows hard drives to store memory. For 10 points, name this strongest type of magnetism, that is present in iron.**

Answer: ferromagnetism (accept ferrous magnetism; accept antiferromagnetism until "Weiss" is read; prompt on "magnet" or "magnetism")

5. This band sang "Where you are seems to be / as far as an eternity" in "Sweetest Goodbye;" that song ended the debut album of this successor band to Kara's Flowers. Jesse Carmichael's 2015 meeting with the Dalai Lama forced this band to (*) cancel Chinese concerts, where they probably would have played "This Love" and "Payphone." For 10 points, name this band which keeps premiering singles on NBC's The Voice, on which its frontman, Adam Levine, is a judge.

Answer: Maroon 5

6. This author wrote about Trigorin and Nina in one play, and about Serebryakov's attempted murder at the hands of the title character in another. In another play by this man, Madame Ranevski sells the title (*) location to Lopakhin. A dramatic foreshadowing device is called this man's "gun." *Three Sisters* and *The Seagull* are by, for 10 points, what Russian playwright, who wrote *Uncle Vanya* and *The Cherry Orchard*?

Answer: Anton Pavlovich Chekhov

7. Release of this substance from Lake Nyos in 1986 killed many in Cameroon. The Keeling curve uses observations from Mauna Loa to plot the level of this, and an influx of this compound has significantly contributed to (*) coral bleaching and ocean acidification. Its concentration in Earth's atmosphere recently hit 400 parts per million, and humans add more by burning fossil fuels. For 10 points, name this greenhouse gas with formula CO₂.

Answer: carbon dioxide (accept CO₂ until mentioned)

8. This city was home to William Lloyd Garrison's *The Liberator*, and during one event in this city, Thomas Preston relieved Hugh White from guarding a customs house. An engraving depicting an action in this city shows the death of (*) Crispus Attucks. In another event in this city, Griffin's Wharf was stormed by the Sons of Liberty, who threw chests into the harbor. For 10 points, what Massachusetts city dealt with both a namesake massacre and a tea party.

Answer: Boston, Massachusetts

9. Each of these structures has a different angular momentum described by its azimuthal quantum number. One variety of this concept is dumbbell-shaped as it has two lobes, while the lowest configuration of these objects are (*) spherical. The plum pudding model preceded the atomic model of this structure. For 10 points, name these electron-housing probability regions which come in s, p, d and f varieties.

Answer: orbitals

10. In one of this man's self-portraits, a bronze fireman's helmet sits atop an easel, and he showed himself painting *The Soda Jerk* in another. He painted men in arm bands escorting a young black girl to (*) school in *The Problem We All Live With*, and showed a man in a plaid shirt standing to talk during a town meeting in his *Freedom of Speech*, an entry in the *Four Freedoms* series he painted for *The Saturday Evening Post*. For 10 points, name this painter of American scenes.

Answer: Norman Perceval Rockwell

11. **This novel's protagonist tricks Moely and runs away with Xury after being enslaved in Salee, and he teaches a pair of cats to eat dinner with him. Another character believes in Benamuckee, and lives on an island near the (*) Orinoco River in this book. This novel was inspired by Alexander Selkirk. An ex-cannibal named Friday and a man who is marooned for twenty-eight years are rescued in, for 10 points, what novel by Daniel Defoe about a title shipwrecked sailor?**

Answer: *The Life and (Strange Surprising) Adventures of Robinson Crusoe* (of York, Mariner: Who lived Eight and Twenty Years, all alone in an uninhabited Island on the Coast of America, near the Mouth of the Great River of Oroonoke; Having been cast on Shore by Shipwreck, wherein all the Men perished but himself. With An Account how he was at last as strangely deliver'd by Pyrates)

12. **This god questioned Alvis until he turned into stone, to prevent Alvis from marrying this god's daughter, Thrud. This god failed to lift a cat because it was the serpent Jormungandr [YOR-mun-gon-dur] in disguise. This god is the husband of Sif, and (*) Loki helped this god disguise himself as Freyja to recover his signature weapon. This god was the son of Odin and wielded the short-handled hammer Mjolnir [mee-YOLL-neer]. For 10 points, name this Norse god of thunder.**

Answer: Thor (accept Donar)

13. **One politician with this surname was responsible for the construction of the Erie Canal, a move labeled that man's "ditch." Another politician with this surname was impeached by the House of Representatives for perjury regarding an (*) intern, but was not convicted by the Senate; that man was criticized for his signing of NAFTA as well as for the Monica Lewinsky scandal. For 10 points, name this surname shared by Dewitt and the 42nd U.S. President, Bill.**

Answer: Clinton (accept Dewitt Clinton; accept William Jefferson Clinton)

14. **This philosopher praised Brutus in a book written about the Roman history book *Ab Urbe Condita*, his *Discourses on Livy*. In another work, he uses Cesare Borgia as an example of the title figure, who he said should be both a "lion" and a "fox" when (*) ruling. After being tortured by the Medicis, this man wrote that "it is better to be feared than loved" as a ruler. For 10 points, identify this Italian philosopher who wrote *The Prince*.**

Answer: Niccolo di Bernardo dei Machiavelli

15. **This character and his wife Hedwige hear the "call to the cows," which re-appears at the end of the opera. He sings a horrified aria when Gessler ties this man's son to a stake; that aria, "Sois immobile" [swaz ee-MOH-bee-lay] tells Jemmy to "stay perfectly still." This (*) Swiss folk hero is immortalized in a Rossini opera whose overture is often used as backing music for heroic horseback riding. For 10 points, name this archer who shoots an apple from his son's head.**

Answer: William Tell (accept Guillaume Tell; accept Guglielmo Tell; accept either underlined name in any of these answers)

16. **In one play by this man, Chris proposes to Ann Deever, the former girlfriend of his missing brother Larry, and discovers that his father, Joe Keller, had knowingly sold faulty airplane parts. That play is *All My Sons*. (*) Giles Corey is crushed to death in this man's play about the Salem witch trials, and "attention must be paid" to Willy Loman in another work by this man. For 10 points, name this American playwright of *The Crucible* and *Death of a Salesman*.**

Answer: Arthur Asher Miller

17. **The union of a function and its reflection over this line cannot be a function. This line represents the real numbers in the Argand diagram of the complex plane, and the distance from this line is designated by the (*) ordinate.** The graph of a quadratic function with imaginary roots will never touch this line, which marks the boundary between the first and fourth quadrants in a Cartesian graph. For 10 points, name this horizontal line, given as y equals zero.

Answer: **x axis** (accept **y equals 0** or equivalents until it is read)

18. **The Michelis-Menten model explains how quickly these molecules can function. This class of molecules may use cofactors to trigger activity. These compounds can adapt to the active site in the induced fit model. These (*) macromolecules are not used up in reactions, but serve to reduce activation energy as biological catalysts.** Ending with the suffix “-ase” [ACE], for 10 points, what type of proteins speed up chemical reactions?

Answer: **enzyme**

19. **This man attempted to gain aid from Great Britain in his “Letter from Jamaica,” and he authorized the killing of Spanish civilians in his “Decree of War to the Death.” This man detailed the fall of Venezuela’s First Republic in his (*) Cartagena [kar-tah-HAY-nah] Manifesto, and met José de San Martín at the Guayaquil [“guy”-ah-kwill] Conference.** For 10 points, name this man known as “The Liberator,” who names a South American country that contains Lima.

Answer: Simón José Antonio de la Santísima **Bolívar** (prompt on “El Libertador” or “The Liberator” before it is read)

20. **One of these men gave Michael Ramsey his Ring of the Fisherman, and this group was charged with “binding” and “loosing” and the Power of the Keys. Sede vacante [say-day vah-kon-tay] occurs when one of these figures is not in power. One of these men issued the (*) Exsurge Domine [ek-soor-jay doh-mee-nay], which threatened Martin Luther with excommunication.** The first of these was the Apostle Peter, and the current one is Francis. For 10 points, name the leader of the Catholic church.

Answer: **Popes** (accept **Bishops of Rome**; accept **Roman Pontiffs**; accept **Pontifex Maximus**; prompt on “His Holiness,” “Holy Father,” or “Sancta Papa”)

Bonuses

1. This Greek deity was once hung from the sky with anvils on her ankles for attempting to rebel against Zeus. For 10 points each,

[10] Name this wife of Zeus, the Queen of Heaven and goddess of marriage.

Answer: **Hera** (do not accept Juno)

[10] Hera is sometimes shown holding this fruit. Persephone ate some seeds of this fruit, which condemned her to live part of each year in the underworld.

Answer: **pomegranate**

[10] Persephone's time in the underworld saddened this goddess of the harvest, who casts the world into winter while Persephone is away from her.

Answer: **Demeter**

2. Ross Gorman used this single-reed instrument to improvise a glissando at the beginning of *Rhapsody in Blue*. For ten points each,

[10] Name this woodwind that is higher in pitch than a bassoon yet lower than a flute. It has a larger range than an oboe.

Answer: **clarinet**

[10] This composer of *Rhapsody in Blue* evoked Caribbean rhythms in his *Cuban Overture* and described his travels in *An American in Paris*.

Answer: George **Gershwin**.

[10] This composer wrote the clarinet concerto *Gnarly Buttons* and heavily used woodblock in his *Short Ride in a Fast Machine*.

Answer: John Coolidge **Adams** (do not accept "John Luther Adams")

3. This man led the Revolt of the Sergeants in 1933 against Gerardo Machado and controlled the military during the Pentarchy. For 10 points each,

[10] Name this cruel Cuban leader who fled to Salazar's Portugal after his deposition in 1959.

Answer: Fulgencio **Batista** y Zaldívar

[10] This Communist took power after Batista's fall. His acceptance of Soviet arms caused the Cuban Missile Crisis.

Answer: Fidel Alejandro **Castro** Ruz

[10] The United States tried to oust Castro in this CIA-backed operation in which John F. Kennedy ordered an attack by Brigade 2506.

Answer: **Bay of Pigs** Invasion (accept **Invasión de Playa Girón** or Invasión de **Bahía de Cochinos**)

4. Samuel Taylor Coleridge collaborated on a collection of these long poems. For 10 points each,

[10] Name this style of poetry exemplified by Coleridge's "Lyrical" ones. These long poems tell stories and are traditionally set to music.

Answer: **ballads** (accept Lyrical **Ballads**)

[10] Coleridge composed the *Lyrical Ballads* with this Romantic poet, who wrote "Tintern Abbey" and "I wandered lonely as a cloud."

Answer: William **Wordsworth**

[10] In this long Coleridge poem from *Lyrical Ballads*, a ship's crew blame the title sailor for their misfortune after he shoots an albatross, moaning that there is "water, water everywhere / nor any drop to drink."

Answer: The **Rime of the Ancient Mariner**

5. In a triangle, these three lines meet at the incenter. For 10 points each,

[10] This is the term for a line or line segment that divides an angle into two new angles with equal measurements.

Answer: angle **bisector**

[10] The incenter of a triangle is unusual in that it only falls on the Euler [oy-lur] line if at least two of the angle bisectors are of equal length, which only occurs if the triangle has this property.

Answer: **isosceles** triangle

[10] The angle bisectors meet at the incenter; the altitudes of a triangle meet at this other central point.

Answer: **orthocenter**

6. This battle was codenamed Operation Detachment. For 10 points each,

[10] Name this battle over a Pacific island during which the *USS Bismarck Sea* was sunk. During this battle, Joe Rosenthal photographed a group of soldiers raising a US flag.

Answer: Battle of **Iwo Jima**

[10] Joe Rosenthal's photograph was taken at the peak of this mountain. During the fight for Iwo Jima, the Japanese were highly entrenched at this location.

Answer: Mount **Suribachi** (accept **Suribachiyama**)

[10] Rosenthal's photograph was recreated in a memorial for this branch of the military. This branch of the military uses the motto "Semper Fidelis" and works closely with the Navy.

Answer: United States **Marine** Corps (accept **USMC**)

7. A turning point in the study of genetics was reached when Frederick Griffith injected different strains of pneumonia into this species. For 10 points each,

[10] Name this small, white mammalian organism whose "knockout" varieties are used to study human diseases like obesity and Parkinson's.

Answer: **mouse** (accept **Mus musculus**)

[10] Thomas Hunt Morgan studied the genetic traits of this model organism, whose four chromosome pairs affect traits like curly wings, ebony bodies, and white or red eyes.

Answer: common **fruit fly** (accept **Drosophila**; accept **Drosophila melanogaster**; accept **vinegar fly**)

[10] This species of nematode was first used by Sydney Brenner as a model organism to study the nervous system. It was the first multicellular organism to have its entire genome mapped.

Answer: **Caenorhabditis elegans** (prompt on "roundworm")

8. According to Twitter, Pittsburgh Pirate Sean Rodriguez spoke to one of these objects and apologized profusely, and this object forgave him "as Christ forgives all." For ten points each,

[10] Name this 10-gallon sporting good, which took four right hooks from Rodriguez after his ejection from the 2015 NL Wild Card game.

Answer: **Gatorade cooler** (accept any description of a **vessel** that holds **Gatorade**; do not accept any other beverage; prompt on partial answer)

[10] Rodriguez's fruit punch pugilistics came during a loss to this fellow NL Central team, led by Anthony Rizzo and Jake Arrieta. In 2009, pitcher Carlos Zambrano took a bat to a Gatorade fountain in this team's Wrigley Field dugout.

Answer: Chicago **Cubs** (prompt on Chicago)

[10] The day after Rodriguez' anti-electrolyte violence, this star Houston Texans running back slammed a caddy of Gatorade bottles to the ground.

Answer: Arian **Foster**

9. This character plans to host a wedding at the Port Authority Bus Terminal, and holds Snowden while he dies. For 10 points each,

[10] Identify this fictional bombardier, who goes AWOL in Rome with Milo Minderbinder, and is forced to continually fly missions.

Answer: Captain John **Yossarian**

[10] Yossarian appears in this novel by Joseph Heller, which is named for a paradox that stops Yossarian from being sent home from war. In this novel, Major Major Major is promoted to Major by an IBM machine and Milo Minderbinder founds M&M Enterprises.

Answer: **Catch-22**

[10] *Catch-22* takes place in Italy during this war. Thomas Pynchon's novel *Gravity's Rainbow*, which features many Nazi V-2 rockets, is also set during this war.

Answer: **World War II**

10. This body is orbited by Styx and Nix. For 10 points each,

[10] Name this former ninth planet from the Sun which was demoted in 2006.

Answer: **Pluto**

[10] Pluto was demoted to this type of planet, characterized by an inability to clear the neighborhood around its orbit.

Answer: **dwarf** planet

[10] Pluto is located in this region of the solar system, also home to the dwarf planets Haumea [HOW-may-uh] and Makemake [mah-KAY-mah-KAY].

Answer: Edgeworth-**Kuiper belt**

11. This religion's holiest gurdwara, or temple, is the Gold Temple in Amritsar. For 10 points each,

[10] Name this religion, whose members wear the Five K's. This Indian religion was founded by Nanak, and its holy text is the Adi Granth.

Answer: **Sikhism** (accept **Sikhi**)

[10] The Adi Granth is considered the last of these wise teachers of Sikhism. This Sanskrit term describes a trusted, knowledgeable instructor.

Answer: **guru**

[10] The act of wearing this body part uncut is called Kesh, one of the Five K's of Sikhism. The Keski and Dastar, a cloth and turban, cover this body part.

Answer: **hair**

12. This physicist names a law of dry friction that notes that sliding velocity does not affect the force of friction. For 10 points each,

[10] Name this Frenchman, whose namesake law describes the inverse-square relationship of the electrical force exerted between two points.

Answer: Charles-Augustin de **Coulomb**

[10] A coulomb is a measure of this quantity, which is equal to current times time. It is a property that can only be positive or negative, and it measures how matter is affected by an electromagnetic field.

Answer: electric **charge** (accept **q**)

[10] Coulomb's law was developed to explain this form of electricity caused by an imbalance of charges across two materials. This type of electricity results when a balloon is rubbed with wool, and lightning is also caused by it.

Answer: **static** electricity

13. Sailors in one of this man's poems are killed for sacrificing Helios's cows and stuff their ears with cotton to avoid the song of the sirens. For 10 points each,

[10] Name this ancient poet, who wrote the *Iliad* and the *Odyssey*.

Answer: **Homer**

[10] In Homer's *Odyssey*, this young man is the son of Odysseus and Penelope. When his father returns from war, this man helps kill Penelope's suitors.

Answer: **Telemachus**

[10] Odysseus uses the drug moly to fend off the advances of the witch Circe, who turns Odysseus's men into these animals.

Answer: **pigs** (accept **swine**)

14. This leader crushed the Scots in the Battle of Worcester, a victory which caused Charles II to flee to France. For 10 points each,

[10] Name this Lord Protector of the England, who participated in the English Civil War.

Answer: Oliver **Cromwell**

[10] Cromwell was responsible for conquering this island nation. During his war with this nation, its Catholic Confederation was supported by English Royalists.

Answer: **Ireland**

[10] After conquering Ireland, Cromwell formed the "Barebone's" version of this body, which in modern times is divided into the House of Lords and the House of Commons.

Answer: **Parliament** (accept Barebone's **Parliament**; accept Rump **Parliament**)

15. Emulsions like milk are examples of these substances, which disperse light by the Tyndall effect. For 10 points each,

[10] Name these mixtures formed from two insoluble compounds. Other examples include gels and aerosols.

Answer: **colloids**

[10] In colloids, compounds without this property can still mix with water, whose bent shape gives it this property. This property denotes a charge separation within a molecule, as seen in hydrogen fluoride and ammonia.

Answer: **polarity**

[10] This type of mixture results when large particles are temporarily dispersed throughout a fluid. It ceases to exist through sedimentation, such as when sand and soil settle out of muddy water.

Answer: **suspension**

16. For 10 points each, give the following about an artist who used his work *Princess from the Land of Porcelain* as the centerpiece for a colorful, Japanese-inspired room.

[10] That room is called *Harmony in Blue and Gold*, but is also titled after this showy and colorful bird, whose large tails appear in gold leaf throughout the room.

Answer: **Peacock** Room

[10] This artist of *Arrangement in Grey and Black* designed the Peacock Room, and painted a controversial *Nocturne in Black and Gold: The Falling Rocket*.

Answer: James (Abbott) McNeill **Whistler**

[10] Whistler painted *Arrangement in Grey and Black* to represent this close relative of his. Dorothea Lange photographed a “Migrant” one of these women, and Mary Cassatt painted many of these people with their children.

Answer: **mother** (accept variations, such as **mom** or **mum**; accept **Whistler’s Mother**; accept Portrait of the Artist’s **Mother**; accept **Migrant Mother**)

17. A land bridge spanned this body of water during a period of low sea levels twelve- to twenty thousand years ago. For 10 points each,

[10] Name this strait that separates the US from Russia.

Answer: **Bering** Strait

[10] Specifically, the Bering Strait connects the Arctic and Pacific Oceans, passing just west of this state’s Seward Peninsula.

Answer: **Alaska**

[10] These two islands in the Bering Strait are separated by the international date line. The smaller of these islands is owned by the United States; the larger, by Russia.

Answer: **Diomed** Islands (accept the **Diomedes**; accept Big and Little **Diomed** Islands; accept **Inaliq** and **Ignaluk**; accept **Imaqliq**, **Nunarbuk**, or **Ratmanov** in place of “Inaliq” in the previous note)

18. After an attack on the city of Lawrence, this man led a massacre near Pottawatomie Creek. For 10 points each,

[10] Name this abolitionist, who led a raid on Harper's Ferry but was hanged after being captured.

Answer: John **Brown**

[10] John Brown was heavily involved in this territory's "Bleeding" period. During that period, anti-slavery supporters passed the Topeka Constitution.

Answer: **Kansas** Territory.

[10] After his death, "John Brown's Body" become a popular song in the North, although it was later adapted into this song by Julia Ward Howe.

Answer: The **Battle Hymn of the Republic**

19. Some practitioners of this discipline include Claude Lévi-Strauss and Bronislaw Malinowski [BRA-nih-slov ma-lih-NOF-skee]. For 10 points each,

[10] Identify this academic field sometimes called the "study of mankind." This field often focuses on the unique culture of groups of native people.

Answer: **anthropology** (accept word forms, such as **anthropologists**)

[10] For his 1911 book *The Mind of Primitive Man*, this American anthropologist studied the potlatch ceremony of the Kwakiutl [kwah-kee-oo-tull] people. He also developed the term "cultural relativism."

Answer: Franz **Boas**

[10] Boas founded the anthropology department at this university. Boas taught Edward Sapir, Alfred Kroeber, and Ruth Benedict while he was a professor at this Ivy League university in Upper Manhattan.

Answer: **Columbia** University

20. In the opening of this book, one character laments "Christmas won't be Christmas without any presents" before she and her sisters decide to play Pilgrim's Progress. For 10 points each,

[10] Identify this work that focuses on the lives of Jo, Meg, Amy, and Beth March. The author based much of this book on her own experiences growing up in the 1800s.

Answer: **Little Women**

[10] *Little Women* was written by this American author. She also wrote several stories under the name AM Barnard for the *Atlantic Monthly*.

Answer: Louisa May **Alcott**

[10] Alcott tutored the daughter of this Transcendentalist author of the essay *Nature*, who gave the Divinity School Address.

Answer: Ralph Waldo **Emerson**