

2015 SCOP Novice 6

Round 11

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. **In order to gain the support of Napoleon III, this country's first prime minister, the Count of Cavour, provoked a war with Austria. Forces from this country launched the Expedition of a Thousand in order to conquer the Kingdom of the Two (*) Sicilies; that attacked was commanded by Giuseppe Garibaldi. For 10 points, Victor Emmanuel II became king of what country, with capital at Rome?**

Answer: Italy (accept Italian Republic)

2. **One character in this work is attacked by dogs because Joseph believes that he stole a lantern. Another character in this novel raises Hareton to be illiterate as revenge for the childhood abuse he suffered from (*) Hindley. Nelly Dean narrates the events of this work to Mr. Lockwood, who has rented Thrushcross Grange. For 10 points, name this novel by Emily Brontë, in which Catherine and Heathcliff are finally buried together near the title house.**

Answer: Wuthering Heights

3. **This thinker's taped conversations with James Baldwin were the basis for *A Rap on Race*. This thinker examined Chambri female dominance in Papua New Guinea in *Sex and Temperament in Three Primitive Societies*. This thinker's "fateful hoaxing" titles a 1999 book by Derek Freeman, which discusses her examination of (*) adolescent sexuality on the island of Ta'u in Polynesia. For 10 points, name this American anthropologist who wrote *Coming of Age in Samoa*.**

Answer: Margaret Mead

4. **This brand paid tribute to its founding by issuing Johnson City Gold. Early packaging claimed that this product "tickled your innards" and featured the mascot Willy the (*) Hillbilly. Coconut water is found in this product's Kickstart line, and other variations include LiveWire and Baja Blast. For 10 points, name this lemon-lime Pepsi product that competes with Coke's Mello Yello.**

Answer: Mountain Dew

5. This author wrote of a character who was “more brave than me:more blond than you.” That “conscientious object-or” had a “heart that recoiled at war.” This man wrote the poem “maggie and milly and molly and may,” which has almost no (*) capital letters, and described a man who “sang his didn’t and danced his did.” “anyone lived in a pretty how town” is by, for 10 points, what American poet known for his strange punctuation and capitalization?

Answer: E(dwin) E(stlin) Cummings

6. A blue and yellow one of these objects appears in Rembrandt’s *The Nightwatch* behind a girl in yellow, and Jasper Johns painted a “White” one of these. Delacroix painted a woman holding a three-colored one of these in (*) *Liberty Leading the People*, and a red-and-white striped one with a blue corner is held behind the title general in the patriotic *Washington Crossing the Delaware*. For 10 points, name these banners that sometimes represent a nation.

Answer: flags

7. Coefficients for this phenomenon are calculated as ratios of tangents and sines in Fresnel’s equations. One form of it produces evanescent waves, and occurs after the arcsine of the ratio of (*) refractive indices, also called the critical angle, is passed. Fiber optic cables use the “total internal” type of this phenomenon, and it can be “diffuse” or “specular.” For 10 points, name this “returning” action of waves, which occurs on mirrors.

Answer: reflection (accept total internal reflection)

8. This figure was delivered to Epimetheus after Zephyrus brought her to life, and this figure was responsible for trapping Elpis. She was taught to weave by Athena and how to speak by Hermes, and Hephaestus was responsible for creating this woman out of (*) clay. This woman was a gift from Zeus, who knew that this woman would fill the world with evil and misfortune. For 10 points, name this mythological woman who cursed mankind by opening a namesake box.

Answer: Pandora

9. This man claimed that “John Brown is no Republican” during a speech at Cooper Union, and he spoke out against the Kansas-Nebraska Act while in Peoria. This man had a series of debates with the creator of that act, (*) Stephen Douglass. During his run for Illinois senator, this man argued against popular sovereignty, and claimed that “a house divided against itself cannot stand.” For 10 points, name this president who gave the Gettysburg Address.

Answer: Abraham Lincoln

10. According to Gibbs’ phase rule, a pure substance at this point has zero degrees of freedom. Polymorphic substances, which exhibit multiple different solid forms, can have more than one of these points. Helium-4 has two of these points owing to its (*) superfluid behavior. For 10 points, name this point at which all three phases of a substance—solid, liquid, and gas—can exist in a state of thermodynamic equilibrium.

Answer: triple point (do not prompt or accept critical point)

11. In one of this author's novels, Kino and his family are plagued with bad luck after finding the title object, and he wrote another novel about the Trask family that mirrors the story of Cain and Abel. This author of *The Pearl* and (*) *East of Eden* wrote a novel in which George and Lennie dream of owning a ranch, and another about the Joad family, who move west during the Depression. For 10 points, name this author who wrote *Of Mice and Men* and *The Grapes of Wrath*.

Answer: John Ernst Steinbeck

12. In bacteria, operons regulate the synthesis of a polycistronic type of this molecule, while a different type oversees the removal of introns and splicing of exons during transcription. One type of this molecule is cloverleaf-shaped, and carries (*) amino acids for translation. Instead of thymine, this molecule contains uracil. For 10 points, name this single-stranded molecule, which comes in “messenger” and “transfer” types, as opposed to DNA.

Answer: RNA or ribonucleic acid

13. The Supreme Court's decision to support this legislation was called “The Switch in Time that Saved Nine,” and companies showed support for part of this program by displaying blue eagles. This set of programs led to the creation of the (*) Tennessee Valley Authority and the construction of the Hoover Dam. For 10 points, name this series of economic programs, including the WPA and NRA, Franklin Roosevelt's attempt to end the Great Depression

Answer: The New Deal

14. A play in this language concerns a man who enrolls in the Thinkery to erase his son's debts. A chorus of frogs sing “bre-ke-ke-kax, ko-ax, ko-ax” in another play in this language, which was used for *The Clouds* and *The Birds*, two works of (*) ancient comic theater. Writers in this language include Aristophanes and the author of *The Trojan Women*, Euripides. For 10 points, name this language used by Athenian playwrights.

Answer: Greek (accept Ancient Greek; prompt on Hellenic)

15. Volcanic activity in this country's central Itasy and Ankaratra regions has turned the soil red. An endangered primate nicknamed the bandro in this country is threatened by deforestation of reed beds in Lake Alaotra. This nation's Betsiboka River flows westward toward the (*) Mozambique Channel. The lemur is endemic to, for ten points, what island in the Indian Ocean, an African country with capital Antananarivo?

Answer: Madagascar

16. A prophecy says that the subject of this event would “eat curds and honey” and be called “Wonderful Counselor.” This event was foretold to the cousin of Elizabeth, and the subject of this event was honored at the Epiphany by the (*) Magi. This event occurred in a stable in Bethlehem in the presence of Joseph and a virgin who was conceived immaculately, Mary. For 10 points, name this religious event commemorated by Christmas.

Answer: birth of Jesus Christ (accept nativity of Jesus Christ; accept accept descriptions like Jesus's birthday; accept Christ, the Christ child, or equivalents in place of “Jesus” in all listed answers; prompt on “Christmas” before it is read)

17. The two most common types of these objects are “stony” and “carbonaceous.” Heinrich Olbers discovered two large examples of these objects that he called Pallas and Vesta, and a collision with one produced the (*) Chicxulub [cheek-SHA-loob] crater in the Yucatan. Platinum-rich ones are candidates for extraterrestrial mining. For 10 points, name these large rocks located in a namesake “belt” between Mars and Jupiter.

Answer: asteroids (do not accept “comet”)

18. A nuclear reactor in this country was targeted in Operation Opera. This country’s “Chemical Ali” released mustard gas during the Al-Anfal campaign, and the United States’ treatment of prisoners in this country led to the (*) Abu Ghraib scandal. This country was bombed during Operation Desert Storm, a move prompted by its invasion of Kuwait. For 10 points, name this country formerly led by Saddam Hussein from its capital, Baghdad.

Answer: Republic of Iraq

19. This language does not support multiple inheritance for classes or pointer arithmetic, and it uses a garbage collector to free unreachable memory. Android app development uses this language’s syntax, leading to a lawsuit between Google and this language’s patent owner, (*) Oracle. Its original developer, Sun Microsystems, marketed this object-oriented language as “write once, run anywhere.” For 10 points, name this computer programming language, named for a type of coffee.

Answer: Java (do not accept JavaScript)

20. A b-minor work with this quality includes a short score of a third-movement scherzo. An opera with this quality was edited by Franco Alfano, whose work was not preserved when Arturo Toscanini premiered it. Franz Sussmayr worked on another of these works, Mozart’s (*) *Requiem* mass. Puccini’s opera *Turandot* suffered from, for 10 points, what quality, which names Franz Schubert’s eighth symphony, a work that was left with only has two movements?

Answer: works left unfinished by the composer (accept descriptions such as “incomplete musical works;” prompt on “symphonies,” “eighth symphonies,” or “symphonies by Franz Schubert” before "opera" is read; prompt on “works by Schubert” until "Franco Alfano" is read)

Bonuses

1. This man created a wooden bull that led to the birth of a cow-headed monster. For 10 points each,

[10] Name this inventor, who built the Labyrinth in which he and his son, Icarus, were imprisoned.

Answer: Daedalus

[10] Daedalus was imprisoned for building the wooden bull that allowed Pasiphae, the wife of this Cretan king, to conceive the half-cow Minotaur.

Answer: King Minos

[10] Daedalus escaped his imprisonment by building two sets of these objects. Unfortunately, his son's set of these fell apart when he went too close to the sun.

Answer: wings

2. A break-in was discovered at this location after Frank Wills noticed duct tape blocking a door's latch. For 10 points each,

[10] Name this hotel, where five people attempted to wiretap the headquarters of the Democratic National Committee.

Answer: Watergate Hotel and Office Building

[10] This organization caused the Watergate break-in to become a full-fledged scandal after they paid for the burglars' legal fees. This organization was created to help a certain man win the election of 1972.

Answer: Committee to Reelect the President (accept CREEP or CRP)

[10] The Watergate scandal caused the resignation of this president, who was later controversially pardoned by his former vice president, Gerald Ford.

Answer: Richard Milhous Nixon

3. Answer the following about Jewish holidays, for 10 points each.

[10] Mishloach Manot [meesh-loh-ock ma-noht] are sent to celebrate this holiday, which commemorates the "casting of lots" and the story of Esther.

Answer: Purim

[10] The *Kol Nidre* ["coal" NEE-drey] prayer is recited during this holiday, which completes the High Holy Days begun by Rosh Hashanah. This holiday is also called the Day of Atonement.

Answer: Yom Kippur

[10] This winter holiday celebrates how the oil of the Maccabees lasted for eight nights instead of one. On each night of this holiday, a new candle is lit on a namesake, menorah-like candle holder.

Answer: Hanukkah (accept Festival of Lights)

4. Edward FitzGerald translated over a hundred of this man's poems, including one whose speaker desires only "a Jug of Wine, a Loaf of Bread, and Thou." For 10 points each,

[10] Name this Persian author who wrote about a "moving finger that writes, and / having writ, moves on" in a namesake collection of *Rubaiyat*.

Answer: (Ghiyath ad-Din Abul-Fath) Omar (ibn Ibrahim al-) Khayyam (Nishapuri)

[10] The *Rubaiyat* of Omar Khayyam is a collection of this type of poem, which have four lines each.

Answer: quatrain

[10] Khayyam's poetry inspired the title of this woman's *The Moving Finger*, a novel about her character Miss Marple. This English mystery writer also wrote the long-running play *The Mousetrap*.

Answer: Dame Agatha (Mary Clarissa Miller) Christie (do not accept Mary Westmacott)

5. Airplanes routinely take advantage of this phenomenon to reduce their fuel consumption. For 10 points each,
 [10] Name this fast-moving current of air, found between five and ten miles above sea level, that pushes storms and other weather systems across North America.

Answer: polar **jet stream**

[10] The jet stream consists mainly of “westerly” winds, meaning that it pushes weather fronts in this direction.

Answer: **east** (accept descriptions like “it travels from **west to east**”)

[10] The jet stream is typically located where this layer of the atmosphere meets the stratosphere above it. This layer of the atmosphere contains all of Earth’s weather.

Answer: **troposphere**

6. The base-ten type of this function is commonly called "common;" when applied to one thousand, that function gives three. For 10 points each,

[10] Name this type of function, the inverse of exponential functions. Their "natural" type is often written in shorthand as “ln.”

Answer: **logarithms** (accept word forms, like **logarithmic functions**)

[10] Logarithms are used to calculate this quantity, the amount of time it takes a radioactive substance to decay to 50% of its original amount.

Answer: **half-life**

[10] Simplify the log of two plus the log of three, giving your answer in logarithmic form.

Answer: **logarithm of six**

7. This empire developed out of the Eastern Roman Empire. For 10 points each,

[10] Name this empire that, despite employing generals like Belisarius, was conquered by the Ottoman Empire. After the fall of this empire, its capital was renamed Istanbul.

Answer: **Byzantine** Empire

[10] This Byzantine Emperor tasked Belisarius with reconquering the Mediterranean, and this husband of Theodora was targeted in the Nika Riots.

Answer: **Justinian I** (accept **Justinian the Great**; prompt on “Justinian”)

[10] Justinian names one of these epidemics which killed over fifty million people. However, his event pales in comparison to a “bubonic” one of these.

Answer: **plagues** (prompt on answers like “illness”)

8. For 10 points each, answer the following about operas set in Africa.

[10] This composer wrote the aria “Svegliatevi nel core” [sVAY-gee-ah-TAY-vee nell KOH-ray] for the character of Pompey’s son, Sesto, in his opera *Julius Caesar in Egypt*. He is more famous for *Water Music* and the oratorio *Messiah*.

Answer: George Frideric **Handel**

[10] This Verdi opera is also set in Egypt, where the general Radames vows to escape with the title Ethiopia captive, who sings “O terra, addio” as she dies.

Answer: **Aida**

[10] This composer wrote “When I am Laid in Earth” for an opera set in Carthage, *Dido and Aeneas*.

Answer: Henry **Purcell**

9. The protagonist of this play has “always depended on the kindness of strangers.” For 10 points each,

[10] Name this play, in which Blanche Dubois travels to New Orleans to visit her sister and her brother-in-law.

Answer: A **Streetcar Named Desire**

[10] This woman, the sister of Blanche Dubois, has a violent but passionate relationship with her husband, Stanley.

Answer: **Stella** Kowalski (prompt on “Kowalski”)

[10] This American author wrote *A Streetcar Named Desire*. A glass unicorn is broken while Laura Wingfield and Jim O'Connor dance in this man's play *The Glass Menagerie*.

Answer: Thomas Lanier “Tennessee” **Williams** III

10. A twenty-hour ferry ride will take you from Devonport, in this country's southernmost state, through Port Philip to the city of Melbourne. For ten points each,

[10] Name this Southern Hemisphere island country, founded as a British penal colony, whose capital is Canberra.

Answer: **Australia**

[10] This southern-most Australian state was formerly known as Van Diemen's Land, and is separated from the mainland by the Bass Strait.

Answer: **Tasmania**

[10] The capital of Tasmania is this seaport city, home to Mount Wellington.

Answer: **Hobart**

11. This book claims that governments will always borrow money to fund a war, and it uses a pin factory to demonstrate the necessity for division of labor. For 10 points each,

[10] Name this book by economist Adam Smith, one of the earliest works that examines the manners in which countries achieved prosperity.

Answer: An Inquiry Into the Nature and Causes of the **Wealth of Nations**

[10] Adam Smith was an economist from this European nation, which was also the homeland of philosopher David Hume. Due in part to economic concerns, this island nation voted to remain a part of the United Kingdom in 2014.

Answer: **Scotland** (accept **Alba**)

[10] In *The Wealth of Nations*, Smith argues that this metaphorical object, which represents a natural economic flow, will guide the markets better than individual meddling.

Answer: **Invisible Hand**

12. This theory was greatly bolstered in 2012 by the discovery of the Higgs boson within the Large Hadron Collider. For 10 points each,

[10] Identify this highly successful model of particle physics. This model incorporates twelve fermions and four gauge bosons, but it cannot fully explain gravity or the nature of dark matter.

Answer: **Standard** Model of particle physics

[10] Ordinary matter, as described by the Standard Model, consists of leptons and this other group of fermions that have flavors like “top,” “charm,” and “strange.” A proton contains two “up” and one “down” type of this particle.

Answer: **quarks**

[10] The quarks that form a proton are held together by this fundamental force, which is carried by gluons.

Answer: **strong** nuclear force

13. In this work, subtitled *Mutiny of the Hispaniola*, Billy Bones leaves his sea chest to a young boy. For 10 points each,

[10] Name this adventure novel by Robert Louis Stevenson, in which Jim Hawkins travels to find pirate treasure.

Answer: **Treasure Island**; or, The Mutiny of the Hispaniola

[10] This ship captain pays Squire Trelawney to hire sailors to help him find the treasure. He ends up with a boatload of pirates who mutiny against this man.

Answer: Captain Alexander **Smollett**

[10] This peg-legged, parrot-toting cook on Smollett's ship leads the mutiny to claim the treasure.

Answer: Long John **Silver**

14. For 10 points each, identify the following characters that appear in Super Smash Brothers 4.

[10] Along with his brother Luigi, this Italian plumber returns to the fight in Smash 4. He can use his cape to reflect projectiles, and use the F.L.U.D.D. to push opponents away from him.

Answer: **Mario**

[10] This black-and-white character's side special causes him to swing a hammer with a randomly generated number displayed above. His neutral special involves him flipping food out of a frying pan at opponents.

Answer: Mr **Game & Watch**

[10] Like Falco, this character's final smash is the Landmaster. This character is told to "do a barrel roll!" by Peppy Hare in his eponymous series.

Answer: Star **Fox**

15. This President's first term included a vicious national debate over the Missouri Compromise and the eventual collapse of the American economy so, naturally, it's described as the "Era of Good Feelings." For 10 points each,

[10] Name this fifth US President, whose re-election was such a foregone conclusion that his party didn't even bother formally nominating him for the ticket in 1820.

Answer: James **Monroe**

[10] This political party was nearly dead by 1820; they didn't nominate a Presidential candidate, so Monroe ran unopposed. Rufus King ran for this party in 1816.

Answer: **Federalist** Party

[10] Monroe was the third of four consecutive Presidents from this early American political party. It was led by Thomas Jefferson in opposition to the Federalists.

Answer: **Democratic-Republican** Party (accept **Jeffersonian Republican** Party; do not prompt on partial answer)

16. Peptides and steroids are examples of these signaling molecules. For 10 points each,

[10] Name this group of messenger molecules released by the endocrine system to regulate metabolism, kidney function, and pregnancy.

Answer: **hormones**

[10] Known as the “master gland,” this pea-sized gland at the base of the brain is responsible for producing human growth hormone and prolactin.

Answer: **pituitary** gland (accept **hypophysis**)

[10] The pituitary gland controls hormone release through this process which shuts off production of hormones when the body reaches equilibrium. Homeostasis works mainly through this type of loop.

Answer: **negative feedback** loops

17. This man fought his emotions while announcing the failure of a national merger. For 10 points each,

[10] Name this founding father of an Asian city-state that became independent from Malaysia in 1965. This leader passed away in March 2015.

Answer: **Lee** Kuan Yew

[10] Lee Kuan Yew was the first Prime Minister of this Asian city-state. Its booming economy and population of less than six million people gives this city the second-highest GDP per capita of any Asian country.

Answer: Republic of **Singapore**

[10] Lee Kuan Yew supported corporal punishment, usually given in this form in schools and prisons. Preston Brooks used this specific attack on Charles Sumner in the House of Representatives in 1856.

Answer: **caning** (accept descriptions like “using a **cane** to **beat** someone;” prompt on “beating” or similar answers)

18. Compounds exhibiting this property are represented by Lewis diagrams with double-headed arrows between them. For 10 points each,

[10] Name this property, in which multiple structures represent the same molecule. The resulting bond lengths will be intermediate because of delocalized electrons.

Answer: **resonance** (accept **mesomerism**)

[10] One molecule that exhibits resonance is this anion found in both fertilizers and gunpowder. An excess of this ion in agricultural runoff is a common cause of algae blooms.

Answer: **nitrate** (accept **NO₃⁻** [“N-O-3-minus”])

[10] Resonant compounds generally adhere to this principle, which demands eight valence electrons for each atom. Because noble gases already satisfy this principle, they do not easily bond.

Answer: **octet rule**

19. For 10 points each, name the following short stories that feature diabolical plot twists.

[10] In this Guy de Maupassant short story, Mathilde works for years to pay for a replacement after she loses the title piece of jewelry, but finds out too late that Madame Forestier’s [foh-REH-stee-AY’s] jewelry had been fake.

Answer: The Diamond **Necklace** (accept La **Parure**)

[10] In this W. W. Jacobs short story, Mr White uses the title appendage to wish for money, but his son is killed in the process. When he wishes again for his son to return from the dead, he gets a horrific result.

Answer: The **Monkey’s Paw**

[10] In this short story by Richard Connell, Rainsford discovers that the only prey that challenges General Zaroff on his hunts is humans.

Answer: The **Most Dangerous Game** (accept The **Hounds of Zaroff**)

20. For 10 points each, answer the following about *The School of Athens*, a painting that shows great thinkers like Plato and Aristotle speaking together in a vaulted room.

[10] *The School of Athens* is a work by this Italian Renaissance artist of *La Disputa*.

Answer: **Raphael**lo Sanzio da Urbino

[10] *The School of Athens* is on a wall in the “Raphael Rooms” of the Apostolic Palace, which is found in this tiny nation, the home of the Pope.

Answer: **Vatican** City (State) (accept Stato della Città del **Vaticano**; accept Status Civitatis **Vaticanae**)

[10] *The School of Athens* is one of several paintings in the Raphael Rooms that were created using this technique. This style involves painting a mural directly onto wet plaster.

Answer: **fresco**