

2015 SCOP Novice 6

Round 9

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. **Two boats are sailing beyond a half-illuminated railing in the background of this painting, which is an entry in the *Frieze of Life* series. The eruption of Krakatoa may have inspired the swirling red (*) sky in this painting, in which a pair of shadowy people walk along a hill overlooking a fjord. This work focuses on a bald figure holding his hands to his face while his mouth stretches open. For 10 points, name this painting by Norwegian artist Edvard Munch [moonk].**

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

2. **Twenty-five episodes of this show featured performances by Julia Collins, and this show was originally hosted by Art Fleming. The author of the book *Brainiac* and this show's top grossing champion, (*) Brad Rutter, were defeated by Watson, a computer, in 2011. Ken Jennings has the most wins on this game show, whose format includes three "daily doubles." For 10 points, name this quiz show hosted by Alex Trebek.**

Answer: Jeopardy!

3. **This man declared he would "not accept if nominated" during the election of 1884, and after the Civil War, this man donated two cannons to the Louisiana Military Academy, an institution he had previously run. During one campaign, troops under this man created this man's (*) "neckties" out of railroads; that campaign ended with this man's capture of Savannah. For 10 points, name this general who led a march to the sea.**

Answer: William Tecumseh Sherman

4. **In natural units, this quantity's square is the difference between the squares of energy and momentum. This property's units include electronvolts over c squared, and daltons. Objects with this property have (*) inertia and can interact with each other via gravity. This is the quotient of force and acceleration. For 10 points, name this quantity that is divided by volume to find density and is often measured in grams.**

Answer: mass (accept inertial or gravitational mass until mentioned and prompt thereafter, accept Planck mass; do not accept or prompt weight)

5. In a novel by this author, Fleur-de-Lys [flure duh LEE] is frightened by Djali's ["jolly's] spelling trick. In another of this man's novels, Enjolras [on-zhol-RAH] leads the Friends of the ABC, who fight alongside Gavroche [ga-VROSH] and Marius. In novels about the misfortune of (*) Esméralda and Fantine [fon-TEEN], this author wrote about a conflict between Frollo and Quasimodo [kwah-see-moh-doh] and one between Javert [jah-VAYR] and Jean Valjean [jon val-JON]. For 10 points, name this French author of *The Hunchback of Notre Dame* and *Les Misérables* [lay mis-ay-RAHB].

Answer: Victor(-Marie) Hugo

6. In this mountain range, accountant-turned-fugitive James "Bismarck" Hammes avoided capture by hiking for six years on a trail that extends from Springer Mountain to Mount Katahdin. Mount Mitchell is its highest peak, and this range includes the (*) Piedmont and Blue Ridge subranges in Virginia and North Carolina. For ten points, name this mountain range that impedes east-west travel as it extends from Georgia to Maine.

Answer: Appalachian Mountains

7. The entropy of these entities is described by the Sackur-Tetrode equation, and another equation governing them is modified by the constants a and b, which represent attraction and volume of particles. The van der Waals equation modifies their (*) namesake law that is formed by combining Boyle's and Charles' laws. These are described by the equation $P V$ equals $N R T$. For 10 points, name this "perfect" state of matter, in which molecules are spaced farther apart than in a liquid.

Answer: ideal gas (prompt on "gas")

8. This man allowed his navy to attack neutral ships in the Milan Decree, and that decree was a part of this man's Continental System which targeted Great Britain. Despite winning the Battle of (*) Borodino, this man was forced to retreat from Russia. This man was defeated at the Battle of Waterloo and, as a result, was exiled to St Helena. For 10 points, name this French emperor who engulfed Europe in his namesake wars.

Answer: Napoleon Bonaparte (accept Napoleon I; do not accept Napoleon III)

9. This creature once prolonged a singing contest by kicking down the sun when it tried to rise. It was tamed after Athena gave a golden bridle to one of Poseidon's sons. This creature was born after blood from Medusa's head fell into the sea. (*) Bellerophon died after this creature bucked when he attempted to fly this animal up Mount Olympus. For 10 points, name this winged horse from Greek mythology.

Answer: Pegasus

10. In this author's first novel, Zeebo defends two children against Lula in First Purchase Church. In one of this author's works, Miss Maudie mocks Stephanie Crawford when she claims to have seen a man who leaves trinkets in a tree for (*) Jem and his sister. This author's recent second novel concerns the adult Jean Louise, who returns to Maycomb, Alabama to visit her father, Atticus Finch. For 10 points, name this author of *Go Set a Watchman* and *To Kill a Mockingbird*.

Answer: (Nelle) Harper Lee

11. When these groups form a cline that loops into itself, they are the “ring” type, and the competitive exclusion principle prevents two of these entities from occupying the same niche. The allopatric model led to different rodent forms of these entities on each side of the Grand Canyon, while different (*) beak shapes mark finch examples of these in the Galapagos. A population that can interbreed is, for 10 points, what taxonomic classification below the genus whose *Origin* was the subject of a Charles Darwin book.

Answer: species

12. In response to the “axe murder incident,” Operation Paul Bunyan was launched against this country. Three soldiers from this country attempted to assassinate Chun Doo-hwan in the Rangoon bombing. While fighting this country, UN forces landed at (*) Inchon but, after crossing the 38th parallel, were forced to retreat. For 10 points, name this country that is separated from its southern neighbor by a demilitarized zone and led by Kim Jong-un.

Answer: North Korea (accept Democratic People’s Republic of Korea; accept Choson Minjujuui Inmin Konghwaguk; prompt on “Korea”)

13. In this novel, Syme is an editor who disappears from work, and Mr Charrington struggles to remember the words to “Oranges and Lemons.” O’Brien pretends to be in the Brotherhood in this novel, but is later revealed to be a member of the (*) Thought Police and sends Julia and Winston to be tortured in the Ministry of Love. For 10 points, name this George Orwell novel about a dystopian society run by the mysterious Big Brother.

Answer: Nineteen Eighty-Four

14. In *Harris v McRae*, it was ruled that states with Medicaid were not required to pay for this action without federal reimbursement; that decision was strengthened by the Hyde Amendment, which prohibited government (*) funding for this action. In an attempt to perform this action, Norma McCorvey claimed she was raped before adopting a pseudonym and filing a lawsuit. For 10 points, name this action which was legalized by *Roe v Wade*.

Answer: abortion (accept word forms; accept descriptions like “terminating pregnancy”)

15. Sergei Prokofiev's *Lieutenant Kije* suite opens with a soft trumpet, then a very soft entrance by this instrument with flute. This instrument plays the triplet-heavy rhythm in the ostinato backing to Ravel's (*) *Bolero*. This instrument has no pitch, but a strainer can tighten or loosen namesake wires inside it. For 10 points, name this type of drum, used with tom-toms and bass drums in a standard drum set.

Answer: snare drum (prompt on “drum”)

16. The ESA satellite Hipparcos has been extremely successful at measuring this quantity, which can be estimated by observing Cepheid [SEH-fee-id] variables in the standard candle method. The apparent motion of nearby stars during Earth’s revolution yields another type of this quantity called stellar (*) parallax. Barnard’s Star has 1.8 parsecs of this quantity while the Sun has one astronomical unit of this as measured from Earth. For 10 points, name this quantity whose galactic unit, the light-year, is nearly 6 trillion miles.

Answer: distance (accept stellar parallax before “Cepheid” is read)

17. In 2015, Anthony Doerr's *All the Light We Cannot See* won this prize, for which Joyce Carol Oates was also nominated. Ernest Hemingway's *For Whom the Bell Tolls* controversially failed to win this prize after being deemed too offensive. Robert Frost, Eugene O'Neill, and Robert Sherwood share the record for the most of these (*) prizes in literature, with four each. For 10 points, name this American literary award, founded in 1917 by a newspaper magnate.

Answer: **Pulitzer** Prize for Fiction

18. Proponents of this economist's theories argue against Say's law. Aggregate supply and aggregate demand are plotted on the x and y axis of his namesake "cross." This man criticized the Treaty of Versailles and argued against war reparations in *The (*) Economic Consequences of the Peace*, and wrote *The General Theory of Employment*. His ideas are often contrasted with supply-side economics. For 10 points, name this British economist who supported stimulus spending.

Answer: John Maynard **Keynes**

19. It is impossible to inscribe more than one square in this type of triangle. The Pythagorean Theorem doesn't apply to these triangles, as c^2 would be larger than $a^2 + b^2$. The circumcenter lies outside this shape, and the cosine of one of these triangle's angles gives a negative value. For 10 points, name this type of triangle, so named because it features one angle larger than 90 degrees.

Answer: **obtuse** triangle (do not accept or prompt anything else)

20. This man blessed Ephraim before Manasseh and reprimanded his sons for killing the men of Shechem, who had kidnapped his daughter, Dinah. This man had a wrestling match at Peniel, and placed the children of his wife (*) Leah in front of Rachel when introducing his family to his brother, Esau. For 10 points, name this biblical father of twelve sons, including Levi and Joseph, whom God named Israel.

Answer: **Jacob** (accept **Ya'akov**; accept **Israel** or **Yisrael** before "Israel" is read)

Bonuses

1. This religion's messengers of God include Moses, Jesus, Muhammad, Buddha, Krishna, and, more recently, the Báb ["bob"]. For 10 points each,

[10] Name this monotheistic religion that believes in the unity of all religions. This religion follows the Book of Certitude and was founded by Bahá'u'lláh [ba-HAH-oo-LAH].

Answer: **Baha'i** Faith (accept **Baha'ism**)

[10] The founder of the Baha'i Faith, Bahá'u'lláh, was born in this modern middle eastern nation, once known as Persia.

Answer: Islamic Republic of **Iran**

[10] Baha'i defines this concept as the condition of being close to God in the afterlife. This happy version of the afterlife is sometimes portrayed as being in the clouds and full of angels.

Answer: **heaven** (accept **paradise**)

2. For 10 points each, answer the following about stone constructions in China.

[10] This defensive fortification, built to protect China from Mongol invasion, isn't really visible from space.

Answer: **Great Wall** of China

[10] The emperor Qin Shi Huangdi [chin shee hoo-ong dee] had this collection of thousands of clay sculptures built and buried with him.

Answer: **Terracotta Army** (prompt on "army")

[10] The Songyue Monastery is home to the oldest stone one of these multi-tiered towers, used for worship in Taoist and Buddhist traditions.

Answer: **pagoda** (do not accept "stupa")

3. Lady and Ghost are "dire" ones of these animals that appear in *A Song of Ice and Fire*. For 10 points each,

[10] Name these wild animals. In a story by the Grimm brothers, one of these animals destroys the homes of three little pigs.

Answer: **wolves** (accept **wolf**; accept **canis lupus** lupus)

[10] Natty Bumppo is called a "wolf in the skin of a dog" in this second novel in James Fenimore Cooper's *Leatherstocking Tales*. This novel is named for Chingachgook, the final member of a Native American tribe.

Answer: The **Last of the Mohicans**

[10] Ulrich von Gradwitz and Georg Znaeym [GAY-org ZNYM] are trapped under a fallen tree and resolve their differences, only to be terrorized by the title wolves, in what short story by Saki?

Answer: The **Interlopers**

4. In 2015, this democratic socialist surprised pundits by speaking at the evangelical Liberty University. For 10 points each,

[10] Name this candidate for the 2016 Democratic Presidential nomination, whose candidacy was supported by fellow New Englander Elizabeth Warren.

Answer: Bernard “Bernie” **Sanders**

[10] Sanders serves as an independent Senator from this state, the first state to join the Union that wasn't one of the thirteen original colonies.

Answer: **Vermont**

[10] In August 2015, a Sanders campaign rally in Seattle was interrupted by protesters from this civil rights movement.

Answer: **Black Lives Matter** (accept **#blacklivesmatter**; do not accept **#alllivesmatter**)

5. In August 2015, researchers at the University of Washington found just the fifteenth in a series of these pictures. For 10 points each,

[10] Give this term for periodically repeating tilings of the plane using shapes that do not overlap or leave gaps.

Answer: **tessellation** (accept word forms like **tesselate**)

[10] Tessellations involving triangles, squares, or hexagons are easy; the Washington researchers' fifteenth tessellation uses these five-sided polygons.

Answer: **pentagon**

[10] You cannot tile the plane with regular pentagons because this number, the measure of each of the internal angles of a regular pentagon, is not a divisor of 360.

Answer: **108** degrees

6. This type of dance employs graceful movements such as *arabesques* and *pirouettes*. For ten points each,

[10] Name this performance dance style that includes the Shaker-hymn-inspired *Appalachian Spring* and cowboy-influenced *Rodeo* [roh-DAY-oh]. Its performers often wear tutus.

Answer: **ballet**

[10] This woman choreographed *Appalachian Spring* and taught a style of dancing focusing on spirals and “contraction and release.”

Answer: Martha **Graham**

[10] This American composer wrote the music for *Appalachian Spring* and *Rodeo*, as well as a *Fanfare for the Common Man*.

Answer: Aaron **Copland**

7. In this novel the “tall soldier,” Jim Conklin, is in the 304th regiment with the protagonist. For 10 points each,
[10] Name this Stephen Crane novel about Henry Fleming, a Union soldier who feels guilty for not taking care of the “tattered man” after fleeing from battle.

Answer: The **Red Badge of Courage**

[10] *The Red Badge of Courage* takes place during this war. Peyton Farquhar, the protagonist of Ambrose Bierce’s “An Occurrence at Owl Creek Bridge,” is hung for helping the Confederates during this war.

Answer: The United States **Civil War** (accept **War Between the States**)

[10] In this Stephen Crane short story, the Captain, Cook, Correspondent, and Oiler all survive a shipwreck, but become stranded at sea in the title vessel.

Answer: The **Open Boat**

8. Postmodern Jukebox takes modern songs, and performs them as if they were written in another era. Name some songs that they have covered, for 10 points each.

[10] Postmodern Jukebox covered this Carly Rae Jepsen song in ragtime style. The lines “Hey, I just met you / And this is crazy / But here’s my number” precede the title phrase of this song.

Answer: **Call Me Maybe**

[10] PMJ used New Orleans jazz dirge style to cover “Sweet Child O’ Mine,” a song by this band, who also sang “Welcome to the Jungle.”

Answer: **Guns ‘n Roses**

[10] Several PMJ songs were included in the game *Bioshock Infinite*, including a cover of this Tears for Fears song, in which “Everybody Wants to” do the title action.

Answer: Everybody Wants to **Rule the World**

9. This document opens its preamble with the words “We the People.” For 10 points each,

[10] Name this document that was created in 1787 to replace the Articles of Confederation.

Answer: United States **Constitution**

[10] The ratifying of the Constitution was supported by this series of essays written by John Jay, James Madison, and Alexander Hamilton.

Answer: The **Federalist** Papers

[10] Opposition to the Constitution was led by this Virginian politician who famously claimed “give me liberty or give me death!”

Answer: Patrick **Henry**

10. This system of the body can be divided into the peripheral and central components. For 10 points each,

[10] Name this system that initiates movement by transmitting signals to the muscles. It includes the brain and spinal cord.

Answer: **nervous** system

[10] Each nerve cell consists of multiple dendrites that lead to a soma which passes signals to this long, slender fiber. This section of a neuron is often studied in squid where it can be 1 millimeter thick.

Answer: **axon**

[10] Also called a nerve impulse, these events transmit signals down neurons by rapidly moving ions, thereby causing a change in voltage across the cell’s membrane.

Answer: **action potentials**

11. This city's effective mayor, Carlos Lacerda, was the target of an assassination attempt on its Rua Tonelero. For ten points each,

[10] Name this former capital of Brazil, the second largest city in Brazil after Sao Paulo.

Answer: **Rio** de Janeiro

[10] The Rua Tonelero is in this wealthy Rio neighborhood, famous for its 2.5 mile long beach.

Answer: **Copacabana**

[10] In contrast to the wealth of Copacabana, Rio contains many of these quickly-growing slums, often found on hillsides.

Answer: **favelas**

12. Archaeologists still debate whether the pulley or this device was more important in constructing the pyramids of Giza. For 10 points each,

[10] Name this simple machine, also called a ramp, that decreases the force needed to lift an object by moving it over a greater distance.

Answer: **inclined plane**

[10] Dividing the weight of an object by the force needed to move it up an inclined plane yields this quantity, a measure of how well a machine enhances the performance of its user. In general, this quantity is the ratio of resistance force to effort force.

Answer: ideal **mechanical advantage**

[10] Dividing actual mechanical advantage by ideal mechanical advantage gives this quantity, the percentage of input work available for output. The hypothetical Carnot [kar-NOH] engine approaches 100% for this quantity.

Answer: **efficiency**

13. Mimir's well of wisdom lies below this tree. For 10 points each,

[10] Name this Norse "world tree," from which Odin hung for nine days and nights.

Answer: **Yggdrasil**

[10] In Norse myth, Yggdrasil [IG-drah-zill] will be one of the only things to survive Ragnarök, also known as "the twilight of the gods." Ragnarök is this type of event, similar to the Christian apocalypse.

Answer: **end of the world** (accept other descriptions like **end times**)

[10] Ragnarök will come about because of a war between the Norse gods and these creatures, led by Loki. Angrboda, a wife of Loki, was one of these strong creatures.

Answer: **Jötunn** (accept **jötnar**; accept frost **giants**)

14. Answer the following about Shakespeare's poetry, for 10 points each.

[10] Shakespeare's name is sometimes given to the "Elizabethan" style of these poems; that style is contrasted with the Italian style named for Petrarch. These poems have fourteen lines.

Answer: **sonnets** (accept Elizabethan or Shakespearean **sonnets**; accept Italian or Petrarchan **sonnets**)

[10] One of Shakespeare's sonnets asks if the speaker could "compare thee" to a day in this season, saying "thou art more lovely and more temperate."

Answer: **summer** (accept Shall I Compare Thee to a **Summer's** Day?)

[10] "Shall I Compare Thee to a Summer's Day" is addressed to a "Fair Youth," but another group of Shakespeare's sonnets were written for this black-haired woman, whose identity remains a mystery.

Answer: the **Dark Lady** (prompt on an incomplete answer, such as "Lady" alone)

15. These substances are so named because they entirely disassociate within a solvent and produce a pH below 7. For 10 points each,

[10] Name this class of acids that lose all of their hydrogen ions, making them more effective than their weak counterparts.

Answer: **strong** acids

[10] One example of a strong acid is this one produced in the contact process that is used in lead-acid batteries.

Answer: **sulfuric acid**

[10] Sulfuric acid has this property, giving its titration curve two areas of leveling-off. This property means that an acid has two hydrogens that can be ionized.

Answer: **diprotic**

16. This event increased tensions that had been diminished due to the Peace of Saint-Germain-en-Laye. For 10 points each,

[10] Name this event that began with the assassination of Gaspard de Coligny. This event, named for an apostle, was a series of attacks on Huguenots by Catholic mobs.

Answer: **St. Bartholomew's Day Massacre** (accept **Massacre de la Saint-Barthelemy**)

[10] Catherine, the queen mother at the time of the St. Bartholomew's Day Massacre, was a member of this family. Leaders of this Italian banking family included Lorenzo the Magnificent.

Answer: de **Medicis**

[10] The Medici family were native to this Italian city, where they held major influence. After attempting to kill Lorenzo, the Pazzi family were exiled from this city.

Answer: **Florence**

17. Robert Lebrun falls in love with the protagonist of this novel. For 10 points each,

[10] Name this novel, in which Edna Pontellier cheats on Léonce with Alcée Arobin after returning from her vacation to Grand Isle.

Answer: The **Awakening**

[10] *The Awakening* was written by this Louisiana author of "The Storm" and "Desirée's Baby."

Answer: Kate **Chopin** (accept Katherine **O'Flaherty**)

[10] In *The Awakening*, Edna carries out this action by swimming out into the Gulf of Mexico. Virginia Woolf performed this action by filling her pockets with stones and walking into the River Ouse.

Answer: **suicide** (accept descriptions like **killing oneself**; accept **drowning**)

18. This painting's subject looks out at the viewer from a black backdrop and wears a white-collared golden dress. For 10 points each,

[10] Name this painting of a young woman, who wears a blue and yellow headdress. This work is titled after the shining white piece of jewelry that hangs down to the subject's collar.

Answer: **Girl with a Pearl Earring**

[10] This painter created *Girl With a Pearl Earring* and a misty painting of his hometown, *View of Delft*.

Answer: Johannes **Vermeer** (accept Jan or Johan **Vermeer**)

[10] Vermeer was a painter from this northern European nation with capital at Amsterdam.

Answer: Kingdom of the **Netherlands** (accept **Dutch** Republic)

19. This politician wrote a book with the chapters "Disaster deferred" and "The power to pollute" which examined the Chevrolet Corvair. For 10 points, each,

[10] Name this Lebanese-American who wrote *Unsafe at Any Speed*, a perennial presidential candidate.

Answer: Ralph **Nader**

[10] Ralph Nader's 1996 and 2000 President campaigns were as a candidate for this party. This party, named for their focus on environmentalism, has representation in over 30 states.

Answer: **Green** Party of the United States

[10] Ralph Nader was accused of "spoiling" the 2000 Presidential Election for this Democratic candidate, a former-vice president who lost to George W. Bush.

Answer: Albert Arnold **Gore**, Jr. (accept **Al Gore**)

20. These vortexes commonly touch down in their namesake "alley" in the central US. For 10 points each,

[10] Name these rotating columns of air that are rated using the enhanced Fujita scale.

Answer: **tornadoes**

[10] Tornadoes are spawned by these rotating thunderstorms that produce a "hook echo" on radar.

Answer: **supercells** (accept **mesocyclones**)

[10] When tornados pass over a sea or lake they become this type of vortex that may cause fish to rain down from the sky.

Answer: **waterspout**