

2015 SCOP 6 Middle School Edition

Round 8

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Tossups

1. **This ruler clashed with Theodoric I and Aetius at the Catalaunian Plains. Honoria sent this leader her ring, and he may have died from a nosebleed after marrying Ildico. Pope Leo I convinced this brother of Bleda to cease his invasion of (*) Italy.** For 10 points, name this loser of the Battle of Chalons, a “Scourge of God” who led the Huns.

Answer: Attila the Hun

2. **One of this composer's works includes tubular bells during the break strain. Another of his works counters trombones and tubas with a trio featuring piccolos, and was honored by Congress in 1987. His (*) "Washington Post" earned this director of the US Marine Band the nickname the "March King."** For 10 points, name composer of the "Liberty Bell," whose "The Stars and Stripes Forever" is America's National March.

Answer: John Philip Sousa

3. **IGCC primarily uses this mineral to produce syngas, and it was mostly produced in the Mississippian and Pennsylvanian periods. Release of sulfur from this mineral is a key cause of acid rain, and types of it include (*) lignite and anthracite.** For 10 points, name this sedimentary rock made of fossilized carbon that is mined throughout the Appalachians.

Answer: coal (accept specific forms such as anthracite or lignite until their names are read)

4. **One leader of this country gained control of rebel forces after the death of Jose Sanjurjo. This country fought the Rif War in Morocco, and the winning side of a civil war in this country was supported by the (*) Condor Legion, which bombed this country's city of Guernica [gayr-NEE-kah]. Francisco Franco was dictator of, for 10 points, what Iberian country east of Portugal?**

Answer: Kingdom of Spain

5. **This scientist won a Nobel prize in medicine for his work regarding animal digestive systems. BF Skinner's "operant conditioning" is often contrasted with this scientist's namesake (*) conditioning, also called "classical conditioning."** For 10 points, name this Russian psychologist who examined salivation in dogs in response to stimuli such as the ringing of a bell.

Answer: Ivan Petrovich Pavlov

6. **A trilogy set in this country includes the works *Sons* and *A House Divided*, and opens with a novel about the once-wealthy O-Lan. *The Joy Luck Club* is about families of immigrants who moved from this country to California, and was written by Amy Tan. Pearl Buck's *The Good Earth* tells the story of (*) Wang Lung in, for 10 points, what Asian country, home to Nobel Prize winners Mo Yan and Gao Xingjian?**

Answer: People's Republic of China

7. **The temperature of a black body can be determined by measuring this property with a spectroradiometer. In the subtractive model of this property, the (*) three primary types will cancel each other out, and light varies in this property from four hundred to seven hundred nanometers. For 10 points, name this property separated by prisms, that can be red, blue, or green.**

Answer: color

8. **In a play about this character, he chooses to die in Colonus, and in another play, this character is raised by King Polybus of Corinth. In a play named for this man, Creon describes how this father of Polynices [“polly”-NYE-seez] and (*) Antigone [an-TIH-guh-nee] answered the Sphinx's riddle, saving the city of Thebes. For 10 points, name this husband of Jocasta, who killed his father and married his mother.**

Answer: Oedipus

9. **Mythological figures with this relationship, named Hunahpu and Xbalanque [sh-bah-lon-kay], destroyed Xibalba [shee-BOL-bah]. The Dioscuri, whose names are Castor and Pollux, have this relationship, and make up the constellation (*) Gemini. A she-wolf suckled a pair of these children who founded Rome. For 10 points, name this familial relation between Mayan “Hero” ones and between Romulus and Remus.**

Answer: twins (prompt on broader answers, such as “siblings” or “brothers”)

10. **After being summoned in *Hearthstone*, Nat Pagle says he can wait while performing this action “all day.” In *Terraria*, performing this action on the edges of the map has a chance to obtain the Reaver (*) Shark. In *The Sims 3*, this skill is enhanced by the Angler trait. Players of *Pokemon* can use an old rod to perform, for 10 points, what action, which can result in battles with Magikarp?**

Answer: fishing (accept angling until “Angler” is read; prompt on “angling” after “Angler” is read)

11. **A metabolic process in this organelle begins with the formation of acetyl-CoA [ah-SEE-tul koh-ay] from pyruvate, and reduces NAD⁺ [“N-A-D plus”] to NADH. This organelle contains DNA inherited only from (*) mothers, and in this organelle, the electron transport chain yields great amounts of ATP energy. For 10 points, name this “powerhouse” of the cell.**

Answer: mitochondrion (accept mitochondria)

12. **A controversial “Isleworth” version of this painting includes two flanking columns in the foreground. This painting’s subject may be the wife of Francesco (*) Giocondo. In this painting, the subject’s hands are folded on the arm of her wooden chair; she wears a veil over her dark hair and has no visible eyebrows. For 10 points, name this painting by Leonardo da Vinci of a woman with a mysterious smile.**

Answer: Mona Lisa (accept La Gioconda before “Giocondo” is read)

13. **During this battle, Omar Bradley was detained after correctly stating that the capital of Illinois was Springfield. Joachim Peiper executed a group of American POWs during this battle’s Malmedy Massacre. When asked to surrender during this battle, an American general defending (*) Bastogne responded “Nuts!” For 10 points, name this World War II battle named for the dent created in Allied lines.**

Answer: Battle of the Bulge (accept Operation Watch on the Rhine; accept Battle of the Ardennes or Ardennes Counteroffensive; accept Unternehmen Wacht am Rhein or Bataille des Ardennes)

14. The maximum number of roots with this property is equal to a polynomial's number of sign changes, according to Descartes' Rule. The fundamental theorem of arithmetic implies that, other than one, all integers with this property are either primes or the products of prime numbers. The (*) natural numbers all have, for 10 points, what property, sometimes denoted by a plus sign, indicating that they are greater than zero?

Answer: positive

15. In a story in this long work, one of King Arthur's knights is told to discover what women want. Two nuns and a pardoner are part of a group in the Tabard Inn who hear the stories told by a group of pilgrims, including the Knight, the Miller, and the (*) gap-toothed Wife of Bath. For 10 points, name this Middle English poem in which stories are shared on the way to the shrine of Thomas Beckett.

Answer: The Canterbury Tales

16. This substance is used in the Shinto ritual Misogi [mee-soh-gee], and the use of this substance in Islam is required after giving birth in the practice of Ghusl. In Hinduism, believers use this substance for purification by visiting the (*) Ganges. In Christianity, Moses drew this substance from a stone, and God used this substance to cleanse the earth during Noah's time. For 10 points, name this wet substance used to baptize Christians.

Answer: water

17. This city is home to the Po Lin Monastery and is connected to its airport on Chek Lap Kok Island by the Lantau Link, which includes the Tsing Ma Bridge. The Peak Tram is featured on this city's currency, which is more common in Macau than Macau's own currency. The Bank of (*) China Tower is in, for 10 points, what city on Victoria Harbor, a Special Administrative Region of China that was a British colony until July 1997?

Answer: Hong Kong

18. These organisms are always the second to experience population growth in the Lotka-Volterra equations. Mobbing is one strategy for opposing these organisms, whose keystone examples include the (*) sea otter in kelp forests. Herbivores like deer can be considered this type of organism in relation to plants, while typical "apex" ones include the polar bear, lion, and great white shark. For 10 points, name these organisms that hunt for prey.

Answer: predators (accept parasites until "aposematism"; prompt consumers)

19. This author of the Nick Adams stories wrote a novel about World War I ambulance driver Frederic Henry, who falls in love with Catherine Barkley in *A (*) Farewell to Arms*. This author of *For Whom the Bell Tolls* wrote a novella about a character who goes eighty-four days without catching a fish, Santiago. For 10 points, name this author of *The Old Man and the Sea*.

Answer: Ernest Miller Hemingway

20. Along with James Madison, this man authored the Kentucky and Virginia Resolutions, and this politician banned exports from the United States with the Embargo Act. After purchasing land from Napoleon, this designer of (*) Monticello ordered Lewis and Clark to explore the Louisiana Purchase. For 10 points, name the third President of the United States.

Answer: Thomas Jefferson

Bonuses

1. Charles Dickens liked telling stories about orphans almost as much as Disney does. Name some of his works about orphans, for 10 points each.

[10] The title orphan of this Dickens work asks for more gruel before he is adopted by Fagin, who makes him pick pockets with the Artful Dodger in this novel.

Answer: **Oliver Twist**

[10] The criminal Abel Magwitch becomes the patron of the orphan boy Pip in this work. Pip eventually wins the love of Estella, Miss Havisham's ward, in this novel.

Answer: **Great Expectations**

[10] In this semi-autobiographical novel, the title orphan is taken in by his aunt, Betsey Trotwood, and falls in love with Little Em'ly and Dora Spenlow.

Answer: The Personal History, Adventures, Experience and Observation of **David Copperfield** the Younger of Blunderstone Rookery, Which He Never Meant to Publish on Any Account

2. This network stretched from the South to Canada. For 10 points each,

[10] Name this network of safehouses whose "conductors" transported slaves to freedom in the 1800s.

Answer: The **Underground Railroad**

[10] This slave, nicknamed "Minty," led over ten groups through the Underground Railroad. During the trip, this woman allegedly threatened any slaves that tried to return to the South.

Answer: Harriet **Tubman** (accept Araminta **Ross**)

[10] Another conductor on the Underground Railroad was this African-American abolitionist who wrote *My Bondage and My Freedom*.

Answer: Frederick **Douglass** (accept Frederick Augustus Washington **Bailey**)

3. An annulus is formed by the area "between" two of these shapes. For 10 points each,

[10] Name this round, two-dimensional shape, defined by its radius and center.

Answer: **circle**

[10] The ring-shaped annulus is only formed between two circles if they have this property; otherwise, the ring is lopsided. Circles with this relationship share a center and usually are of different sizes.

Answer: **concentric** circles (accept word forms)

[10] The area of an annulus is interestingly equal to pi times the square of the length of the longest chord through the outer circle that does not cut through the inner circle. That chord can therefore be described by this term, which describes lines that "glance off" of an object by only intersecting it at a single point.

Answer: **tangent** line (of the inner circle)

4. This peninsula's Gold Coast includes Tijuana, just across an international border from Chula Vista, and its south includes Cabo San Lucas. For 10 points each,

[10] Name this peninsula, separated from the mainland by the Gulf of California.

Answer: **Baja California**

[10] Baja California includes two of this North American country's states. The definition of Central America begins at this country's border with Guatemala.

Answer: **Mexico**

[10] Tijuana and Chula Vista are part of an international urban area with this second-most populous California city.

Answer: **San Diego**

5. 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 own game series.

Answer: Star **Fox**

6. Despite their best efforts, it seems nobody can obtain peace in Europe. For 10 points each,

[10] Name this Klemens von Metternich-led conference in an Austrian city that attempted to create lasting peace in Europe after the Napoleonic Wars.

Answer: **Congress of Vienna**

[10] Another attempt to end conflict in Europe was this French treaty, which ended World War I. Unfortunately, this treaty's "war guilt" clause directly led to World War II.

Answer: Treaty of **Versailles**

[10] In line with the Treaty of Versailles, the United States declined to join this group of countries, which was a precursor to the United Nations.

Answer: **League of Nations**

7. This galaxy takes its name from a bright patch of light in the night sky. For 10 points each,

[10] Name this spiral galaxy, which contains our Solar System.

Answer: **Milky Way** Galaxy

[10] This spiral galaxy, the nearest large galaxy to the Milky Way, is located 2.2 million light years away and is expected to collide with the Milky Way in 5 billion years.

Answer: **Andromeda** Galaxy (accept **Messier 31**, **M31**, or **NGC 224**)

[10] The Milky Way and Andromeda are a part of this larger group of fifty-four galaxies. This group is part of the Laniakea [lah-NEE-uh-KAY-uh] Supercluster.

Answer: **Local** Group

8. Dab-Dab is one of these animals in *The Story of Doctor Dolittle*. For 10 points each,

[10] Name this type of bird. In a Norwegian play, Hedvig is told to shoot one of these birds, and an “ugly” one of these turns into a swan in a Hans Christian Andersen fairy tale.

Answer: **ducks** (accept **ducklings**; accept The **Wild Duck**)

[10] This Norwegian playwright of *Ghosts* wrote *The Wild Duck*, as well as a play in which Nora Helmer is blackmailed.

Answer: Henrik **Ibsen**

[10] Henrik Ibsen wrote this play about Nora Helmer, who is blackmailed by Krogstad and eventually abandons the title home.

Answer: A **Doll’s House** (accept Et **dukkehjem**)

9. For 10 points each, give the following about the “Mighty Handful.”

[10] Mily Balakirev led the Mighty Handful at meetings in St Petersburg in this home nation of the Handful.

Answer: **Russian** Empire (do not accept "USSR")

[10] This member of the Mighty Handful described the transformation of Guidon in his *The Tale of Tsar Saltan*, which includes the Flight of the Bumblebee.

Answer: Nikolai Andreyevich **Rimsky-Korsakov**

[10] Another member, Modest Mussorgsky, wrote *Night on Bald Mountain*, a piece best known for its use in this 1940 film that paired classical music with Disney animation.

Answer: **Fantasia**

10. This biblical figure refuses to lose his faith, even when he loses everything, saying “the Lord gave and the Lord has taken away.” For 10 points each,

[10] Name this man. In his namesake book of the Bible, God tests this man’s faith by destroying everything he has.

Answer: **Job**

[10] This figure challenged God to test Job’s faith. This fallen angel, once called Lucifer, is also credited with tempting Eve in the Garden of Eden in the form of a serpent.

Answer: **Satan** (accept the **devil**; accept **Beelzebub**; accept ha**Satan** or **Shaitan**; accept common names such as **Prince of Darkness**)

[10] These many friends visit Job during his suffering. Noah had this number of sons, and this is the number of parts in the Christian God.

Answer: **three**

11. Answer the following about some twentieth-century American artists, for 10 points each.

[10] This American realist painted the cafe scene *Chop Suey* and a brightly-lit diner on a darkened street in his work *Nighthawks*.

Answer: Edward **Hopper**

[10] This woman is considered the Mother of American Modernism. She painted many landscapes of New Mexico that often featured cow skulls.

Answer: Georgia **O’Keeffe**

[10] O’Keeffe was married to Alfred Stieglitz [STEE-glitz], who worked in this artistic medium to create images like *The Steerage*, a still picture of a crowded ship created with a camera.

Answer: **photography** (accept equivalents such as “taking **photographs**”)

12. This short story first appeared in *The Sketchbook of Geoffrey Crayon*, alongside “The Legend of Sleepy Hollow.” For 10 points each,

[10] Identify this short story, whose title character is perplexed by a portrait of George Washington after waking up from a twenty-year nap in the Catskills.

Answer: **Rip van Winkle**

[10] This American author wrote “The Legend of Sleepy Hollow” and “Rip van Winkle.”

Answer: Washington **Irving**

[10] Washington Irving published *A History of New York* under the name of this fictional dutch historian. Irving also claimed that this historian wrote “Rip van Winkle.”

Answer: Diedrich **Knickerbocker**

13. The symbol for an inductor resembles a coiled wire on the diagrams for these entities. For 10 points each,

[10] Name these closed loops through which electric current can flow. These paths may be arranged in series or in parallel.

Answer: **circuits**

[10] For a parallel circuit, the equivalent amount of this quantity is found by summing the reciprocal of each component’s value and then taking the reciprocal of the total. This quantity is equal to voltage divided by current.

Answer: **resistance**

[10] Electrical resistance is measured with these units, which is represented by omega and named for a German scientist.

Answer: **ohms** (accept Georg Simon **Ohm**)

14. Answer some questions about colorful literary knights, for 10 points each.

[10] Under a spell cast by Morgan Le Fay, the Green Knight attempts to behead this man, King Arthur’s nephew, in a Middle English poem.

Answer: Sir **Gawain** [GAH-wan] (be lenient with pronunciation)

[10] In this novel by Sir Walter Scott, the title knight fights for the love of Lady Rowena and is saved several times by a mysterious Black Knight, who is later revealed to be King Richard I.

Answer: **Ivanhoe**

[10] This man fights the Knight of the White Moon but is quickly vanquished. In a more famous incident, he tilts at windmills, mistaking them for giants.

Answer: Don **Quixote** de la Mancha (also accept Alonso **Quixano** de la Mancha; accept “of la Mancha” in place of “de la Mancha” in either answer)

15. During this trial, the plaintiffs were asked to identify which dolls they found ugly. For 10 points each,

[10] Name this court case that overturned *Plessy v Ferguson* and allowed the integration of schools.

Answer: **Brown v. Board** of Education of Topeka

[10] *Brown v Board* was presided over by Chief Justice Earl Warren, who had earlier held this state-level position. Arnold Schwarzenegger preceded this office’s current holder, Jerry Brown.

Answer: **Governor of California**

[10] Justice Earl Warren was also the namesake of the Warren Commission, a body that investigated this event. His investigation into this event determined that Lee Harvey Oswald acted alone.

Answer: **assassination of John Fitzgerald Kennedy** (accept **assassination of JFK** or similar answers; prompt on “assassination of Kennedy” or similar answers)

16. This god was dropped from Mount Olympus shortly after his birth because his mother was so horrified by his looks. For 10 points each,

[10] Name this Greek god of smithing who was permanently crippled by his fall from Olympus even though he was caught by a nymph.

Answer: **Hephaestus** (do not accept **Vulcan**)

[10] The nymph Thetis found and raised Hephaestus after his fall. She was also the mother of this Greek hero, whose heel she accidentally left vulnerable when she dipped him in the River Styx.

Answer: **Achilles**

[10] After he returned to Olympus, Hephaestus married this unfaithful goddess of love. Hephaestus trapped Ares and this goddess together with a golden net.

Answer: **Aphrodite** (do not accept **Venus**)

17. The units of this scale are equal to degrees Fahrenheit, plus thirty-two, all multiplied by five-ninths. For 10 points each,

[10] Name this scale of temperature, named after a Swedish scientist, that gives a value of zero to the temperature at which pure water freezes.

Answer: **Celsius** scale (accept **centigrade**)

[10] One hundred degrees Celsius holds this value for water. At this transition value, a liquid becomes a vapor.

Answer: **boiling point**

[10] At this value for temperature and pressure, a substance can exist as a gas, a liquid, and a solid in equilibrium.

Answer: **triple point**

18. For 10 points each, answer the following about recent political scandals.

[10] This real estate tycoon and reality TV star claimed that the Mexican government is pushing the “worst elements” into the United States, leading numerous countries to withdraw from his Miss Universe pageant.

Answer: Donald John **Trump**

[10] Like Hillary Clinton, this Governor of Wisconsin dealt with an e-mail scandal; his concerned illegal contributions before and during his 2012 recall election. He withdrew from the race in September 2015.

Answer: Scott Kevin **Walker**

[10] Aaron Schock, a representative from this state, resigned in 2015 after misusing taxpayer dollars on a Downton Abbey-style renovation of his office. Another representative from this state, Jesse Jackson, Jr., resigned in 2012 and served one and a half years in prison for fraudulent use of campaign money.

Answer: **Illinois**

19. Examples of this biochemical grouping include sugars. For 10 points each,

[10] Name this group of macromolecules, a major energy source for cells, whose members have a ring structure containing only carbon, hydrogen, and oxygen.

Answer: **carbohydrate** (accept any variation of **saccharide**)

[10] A common example of a carbohydrate is this sugar, also known as dextrose, with formula $C_6H_{12}O_6$. It is found in chains as starch in plants and glycogen in animals.

Answer: **glucose**

[10] This nitrogenous derivative of glucose is found in the cell walls of fungi and in the shells of crustaceans.

Answer: **chitin** [KYE-tin]

20. This leader replaced Gaius Suetonius Paulinus, expecting his retribution against the Iceni after Boudica's revolt would be too harsh. For 10 points each,

[10] Name this Roman emperor who supposedly fiddled during the Great Fire of Rome.

Answer: **Nero**

[10] Nero launched the first Roman war against these people, including the radical Zealots, in 66 CE; in that war, Vespasian invaded Galilee.

Answer: **Jewish** people

[10] Nero's death in 68 led to this period, in which Galba, Otho, and Vitellius were unable to hold onto power. Vespasian returned from Judaea at the end of this period.

Answer: **Year of the Four Emperors** (prompt on “69 CE”)