

## 2011 SCOP Novice

### Round 7

Ben Chametzky • Nick Conder • Brad Fischer • Jonah Greenthal • Webster Guan • Mike Laudermith  
Danielle Long • Nolan Maloney • Saieesh Rao • Kristin A. Strey • Tristan Willey • Mike Wong

#### TOSSUPS

1. A character in this work is told “silflay hraka u embleer rah” [sill-fly hraa-kaa oo eh-m-”blare” raakh], after being attacked by Kehaar. That character led Efrafa and faces down an ex-Owsla officer during an attack on the title location. In this novel, (\*) Blueberry pioneers the use of buoyant wood to cross water after escaping the destruction of Sandleford Warren prophesied by Fiver. For 10 points, name this novel by Richard Adams, about the epic journey of some rabbits.

Answer: Watership Down

2. This man, who made the “Appeal of the 18th of June,” was criticized for shouting “Long live free Quebec!” in 1967. A wildcat strike begun by student protesters caused this man to flee to Germany in May 1968. This leader, who granted independence to Algeria, founded the (\*) Fifth Republic in 1958 and opposed the Vichy [vee-she] government. For 10 points, name this President of France and leader of the Free French Forces during World War II.

Answer: Charles de Gaulle

3. It is not an amalgam, but this substance is a catalyst in the Clemmensen reduction. The Leblanc process has been abandoned because it generates this compound as a byproduct. Industrially, this compound is used to pickle steel and synthesize PVC plastics, and with (\*) nitric acid, it forms aqua regia. Found in gastric juice, for 10 points, name this binary acid composed of a hydrogen atom and the second lightest halogen, also known as HCl.

Answer: Hydrochloric Acid (accept HCl before given)

4. This president, who defeated James M. Cox in a landslide, signed the Fordney-McCumber Tariff. His Secretary of the Interior, Albert B. Fall, leased navy petroleum reserves to private companies. He promised a return to (\*) “normalcy” after World War I, and the Teapot Dome Scandal came to light after his death in office. For 10 points, name this Republican president who succeeded Woodrow Wilson and was followed by Calvin Coolidge.

Answer: Warren G(amaliel) Harding

5. This event begins with six intermediate states called bardo, but this process no longer occurs when a person reaches moksha. Through this process, the Bodhisattva of Compassion now manifests as Tenzin Gyatso, the fourteenth (\*) Dalai Lama. The conditions of this event are dictated by karma. Occurring after death, for 10 points, name this Indian religious concept, in which the soul returns to a new body.

Answer: reincarnation (grudgingly accept rebirth)

6. Amontons' laws concern the "dry" form of this phenomenon, which was modeled by Coulomb, and state that it is independent of the surface area of contact between two objects. Its namesake (\*) coefficient has the symbol mu, and comes in static and kinetic varieties. For 10 points, name this force directly proportional to the normal force that opposes the motion of an object.

Answer: frictional force

7. This novel's protagonist rescues Aouda [ah-oo-dah] from performing Sati [sah-tee], and retrieves his manservant from a circus in Yokohama. Detective Fix pursues this novel's protagonist, who is believed to be a bank robber. The (\*) International Dateline saves the day, and allows the protagonist to win a bet with the Reform Club. For 10 points, name this novel by Jules Verne, in which Passepartout [pass-par-TOO] and Phileas Fogg circumnavigate the globe.

Answer: Around the World in Eighty Days (accept Le tour du monde en quatre-vingts jours)

8. George W. Harkins wrote a "Farewell Letter to the American People" before this event, in which the provisions of the Treaty of Dancing Rabbit Creek were carried out. The Dade Massacre was part of a decade long war by the (\*) Seminoles to avoid this event, and the Supreme Court ruled that the Cherokee People would be forced into this journey as well. Spanning from the South to Oklahoma, for 10 points, name this forcible relocation of Native Americans during the 1830s.

Answer: Trail of Tears

9. The aliquot sequence is constant for these numbers, whose examples other than the first one have digital root 1. Currently-known examples of them are in one-to-one correspondence with Mersenne prime numbers, and there are a number of restrictions on--but no (\*) proof about--the existence of odd versions of these numbers. Equaling the sum of its proper divisors, for 10 points, give this type of number whose first two examples are 6 and 28.

Answer: perfect numbers

10. One character in this opera replaces a love letter with a laundry list to trick her guardian, Dr. Bartolo. That character, Rosina, sings "Una voce [voh-CHAY] poco fa" after falling in love with Lindoro, who is actually the disguised Count (\*) Almaviva. This opera's aria "Largo al factotum" includes a rapid repetition of the singer's name, Figaro. For 10 points, name this Rossini opera about a former hairdresser.

Answer: The Barber of Seville

HALF TIME

11. One of this band's songs is named for a phrase said by attackers of Dan Rather; another song's chorus begins "That's me in the corner/that's me in the spotlight," and a third song notes "It's time I had some time alone" and namedrops Leonard Bernstein. **Disbanding in** (\*) 2011, 31 years after being founded by Peter Buck and Michael Stipe in Athens, Georgia, for 10 points, name this band of "Losing My Religion" and "It's the End of the World As We Know It."

Answer: **R.E.M.** [Moderator's note: if players are curious, the first song is "What's the Frequency, Kenneth"]

12. **This poet climbs a mountain on which disembodied voices relate stories from the life of the Virgin Mary. This poet is guided in his journeys by a childhood love, Beatrice, and sees Paolo and Francesca da Rimini buffeted by winds as punishment for infidelity. His protagonist reads** (\*) "Abandon all hope, ye who enter here" as he begins his journey through the *Inferno*. For 10 points, name this Italian poet of *The Divine Comedy*.

Answer: **Dante** Alighieri

13. **The condensin complex begins this phase, in which gamma-tubulins position the centrosomes. Crossing over occurs in this phase where chromatin coils into chromosomes and the** (\*) centromeres attach to the spindle fibers. The nuclear membrane breaks down at the end of, for 10 points, what phase, the first of mitosis and meiosis, which comes before metaphase.

Answer: **Prophase** I

14. **This poet described a "flood-tide below me," and also wrote about a ship that has "weather'd every rack" and whose voyage is "closed and done." This poet of "Crossing Brooklyn Ferry" addressed** (\*) "When Lilacs Last in the Dooryard Bloom'd" to Abraham Lincoln, who has "fallen cold and dead" in "O Captain! My Captain!" For 10 points, name the author of the line "I celebrate myself and sing myself," the American poet of *Leaves of Grass*.

Answer: Walt(er) **Whitman**

15. **A special election in this state in May 2011 saw Kathy Hochul win a congressional seat. This state's Governor defeated Tea Party-backed candidate Carl Paladino in last year's election to replace outgoing Governor David** (\*) Paterson; he also scored a major legislative victory on June 24 when the State Senate passed the Marriage Equality Act, allowing gay marriage. For 10 points, name this state currently governed by Andrew Cuomo from the capital, Albany.

Answer: **New York**

16. **This American artist's films include *Vinyl* and *Sleep*. He was shot at his studio, the Factory, where he created silkscreens of Elvis Presley and Marilyn Monroe. His most famous work contains thirty-two canvases depicting** (\*) flavors like vegetable, beef, and tomato. For 10 points, name this "Pope of Pop" who coined the term "fifteen minutes of fame" and created paintings of Campbell's soup cans.

Answer: Andy **Warhol** (accept Andrew "Andy" Warhola, Jr.)

17. This concept caused W.V. Quine to argue that the Cartesian dream of certainty was impossible. The founding maxim of this school of thought is a logical guide towards clarity, as included in *How to Make Our Ideas Clear* by C.S. Pierce [“purse”]. The name of this school of thought was popularized as (\*) “A New Name For Some Old Ways of Thinking” by William James. For 10 points, name this branch of philosophy which derives the value of ideas from their practical consequences.

Answer: Pragmatism (accept Pragmatist/s)

18. The Maunder minimum refers to a lack of certain features on this astronomical body, which is currently traveling through the Milky Way’s Orion arm. One satellite sent to study it is SOHO, and it operates on a 22-year magnetic cycle, producing an (\*) 11-year cycle of its namesake spots, which are cooler than the surrounding regions. The astronomical unit refers to the distance between the Earth and, for 10 points, what star orbited by Earth?

Answer: Sun [or Sol]

19. This concept, along with fertility, was overseen by the Sumerian goddess Inanna. When she served as the Eye of Ra, the lion-headed Sekhmet was a goddess of this type. The Norse deity of this type will kill and be killed by the hell-hound Garm, and is named (\*) Tyr. The Greek god who ruled this had a sister named Eris and was the lover of Aphrodite. For 10 points, name this type of god, exemplified by Ares and Mars.

Answer: war deities (accept gods and/or goddesses of war)

20. This city’s reliance on mercenaries led to a 240 BCE revolt, called the Mercenary War. This city sponsored exploratory voyages to Nigeria, including one led by Hanno the Navigator. Founded by Phoenicians from Tyre, it had been victorious at (\*) Cannae but was crushed at the Battle of Zama by Scipio Africanus. For 10 points, name this city in North Africa that fought Rome in the Punic Wars under the leadership of Hannibal.

Answer: Carthage

## BONUSES

1. This architect was a mentor to Frank Lloyd Wright and was one of the first proponents of the skyscraper. For 10 points each,

[10] Name this American architect who was known for the practical phrase “form ever follows function,” and who created the Wainwright Building.

Answer: Louis **Sullivan**

[10] The Wainwright Building is located in this Missouri city, the location of a famous arch.

Answer: **St. Louis**, Missouri

[10] St. Louis’s Gateway Arch was designed by this Finnish architect, who created the TWA Flight Center and the Dulles International Airport.

Answer: Eero **Saarin**

2. Papua New Guinea is home to many of these, and the most famous of these worshipped John Frum on Vanuatu. For 10 points each,

[10] Name this type of religious movement that awaits the return of vast shipments of Western goods.

Answer: **cargo** cult

[10] Papua New Guinea has been extensively studied by anthropologists, including this colleague of Ruth Benedict and author of *Growing Up in New Guinea*.

Answer: Margaret **Mead**

[10] Mead's magnum opus, this study of adolescent sexuality on the island of T’au was criticized by Derek Freeman after her death.

Answer: **Coming of Age in Samoa**

3. This director features his sister Joie in many of his films, termed “joints.” For 10 points each,

[10] Name this director of *Crooklyn*, *4 Little Girls*, and *Malcolm X*.

Answer: Shelton Jackson “Spike” **Lee**

[10] This Spike Lee film features vignettes on Stuyvesant Avenue that culminate in a riot and the destruction of Sal’s Pizzeria.

Answer: **Do the Right Thing**

[10] Lee filmed a series of commercials, featuring Ali G interviewing NBA stars, for this network based in his hometown of Atlanta. Its original programming includes the drama *The Closer*.

Answer: **TNT** (accept **T**urner **N**etwork **T**elevision)

4. For 10 points each, give the following about the history of Mexico.

[10] At its height, this center of the Aztec empire has been estimated to be one of the largest cities in the world. Mexico City was built on its ruins.

Answer: Mexico Tenochtitlan

[10] This one-legged dictator of Mexico attempted to crush the Texan Revolution and had that same territory wrested from him in the Mexican-American War.

Answer: Antonio López de Santa Anna

[10] Today, Mexico is embroiled in a struggle against these criminal organizations, examples of which include the Sinaloa, Gulf, and La Familia ones.

Answer: Mexican Drug Cartels

5. Answer the following about American playwrights, for 10 points each.

[10] This woman wrote about Janie's marriage to Tea Cake in *Their Eyes Were Watching God*, and wrote the play *Mule Bone* with another African-American author.

Answer: Zora Neale Hurston

[10] Hurston worked with this Harlem Renaissance poet to write *Mule Bone*. He is more famous for poems like "The Negro Speaks of Rivers" and *Montage of a Dream Deferred*.

Answer: Langston Hughes

[10] This playwright's *Zoo Story* was recently expanded as *At Home at the Zoo*. George and Martha hold a dinner party in this playwright's *Who's Afraid of Virginia Woolf?*

Answer: Edward Albee

6. The hyperbolic version of this function equals one half the quantity  $e$  to the  $x$ , minus  $e$  to the negative  $x$ , end quantity. For 10 points each,

[10] Name this trigonometric function, which in a right triangle relates the side opposite the angle to the hypotenuse.

Answer: sine function (accept sin function, sine (of)  $x$ , or sine (of) theta, etc.)

[10] This trigonometric function is the reciprocal function of sine.

Answer: cosecant function (accept csc function, cosecant (of)  $x$ , csc  $x$ , cosecant (of) theta or csc theta, etc.)

[10] Because sine of negative  $x$  equals negative sine of  $x$ , the sine function is classified as this type of function that is symmetric about the line  $y$  equals  $x$ .

Answer: odd function(s)

7. He served as the Secretary of Defense under George H.W. Bush. For 10 points each.

[10] Name this man, who served as Vice President during George W. Bush's administration.

Answer: Richard Bruce "Dick" Cheney

[10] During the 1990s, Cheney was the CEO of this Texas based oil company, which received valuable contracts from the U.S. government during the Iraq War.

Answer: Halliburton

[10] As a senator, Cheney represented this state. It was the first in the union to adopt women's suffrage.

Answer: Wyoming

8. Identify some medieval tales, for 10 points each.

[10] Seven women and three men tell stories while living in the country to escape the black death in this series of stories by Boccaccio [bo-KAH-chee-oh].

Answer: The **Decameron**

[10] The title Geat [“gate”] of this British poem slays Grendel and Grendel’s Mother before dying in battle with a dragon.

Answer: **Beowulf**

[10] This man accompanies Beowulf as he slays the dragon, and becomes king after Beowulf’s death.

Answer: **Wiglaf**

9. For 10 points each, answer the following about poultry in Russian classical music.

[10] This Tchaikovsky ballet sees Odette turned into the title waterbird during the day by Von Rothbart’s curse.

Answer: **Swan Lake**

[10] *The Golden Cockerel* is the final opera of Nikolai Rimsky-Korskaov, who was a member of this Russian group that also included Modest Mussorgsky.

Answer: The **Five** (accept The **Mighty Five**, The **Mighty Handful**, The **Russian Five**, or The **Russian Handful**)

[10] This Mussorgsky work was inspired by a collection of Viktor Hartmann’s works, including a depiction of “The Hut on Fowl’s Legs.”

Answer: **Pictures at an Exhibition**

10. These devices are used in the lab to determine heat capacity, and a common example is a Styrofoam cup with a thermometer. For 10 points each,

[10] Name this device. The heat change,  $q$ , in the coffee cup variety is equivalent to the change in enthalpy.

Answer: **calorimeter**

[10] This kind of calorimeter measures heat changes under constant volume. The heat change,  $q$ , is equivalent to the change in internal energy between reactants and products.

Answer: **bomb** calorimeter

[10] While a bomb calorimeter is held at constant volume, a coffee cup calorimeter operates under this condition.

Answer: **constant pressure** (accept equivalents along the lines of “the **pressure** does **not** **change**”)

11. For 10 points each, answer the following about African bodies of water.

[10] The Blue and the White are tributaries of this longest river in the world. Containing the Aswan High Dam, it begins at Lake Tana in Ethiopia and ends at Lake Nasser in Egypt.

Answer: **Nile** River

[10] This waterfall on the Zambezi River between Zambia and Zimbabwe is the world’s largest waterfall

Answer: **Victoria** Falls

[10] This colorful river rises in the Drakensberg Mountains of Lesotho and empties into the Atlantic Ocean. It also forms the border between South Africa and Namibia.

Answer: **Orange** River

12. This method can be used to induce immunity against various diseases such as measles and diphtheria, but as of yet cannot be used to induce immunity against malaria. For 10 points each:  
[10] Name this process, similar to inoculation, in which a dead or weakened germ is introduced to the body. This process must be undertaken every year by people who want to be immune to influenza.

Answer: **vaccination** (accept equivalents, like “getting a **vaccine**,” prompt on shot)

[10] Vaccination was pioneered by this British microbiologist who posited in 1796 that exposure to a weak disease can induce immunity to a more virulent disease.

Answer: Edward Anthony **Jenner**

[10] Jenner vaccinated a boy named James Phipps against this disease by exposing him to cowpox. This disease was eradicated in 1977 after a worldwide campaign, but two repositories exist at the CDC and in Russia.

Answer: **smallpox**

13. This state would "bleed" during violence between abolitionists and pro-slavery forces during the late 1850s. For 10 points each,

[10] Name this state, admitted to the Union as a free state in 1861, after violence between "Free-Staters," including John Brown, and pro-slavery forces, including "Border Ruffians" from Missouri.

Answer: **Kansas** (accept **Bleeding Kansas**)

[10] This man would win 66% of the vote in Kansas during his 1872 re-election as President. He was the commanding Union General of the Civil War and accepted Robert E. Lee's surrender at Appomattox.

Answer: Ulysses Simpson **Grant** (accept Hiram Ulysees **Grant**)

[10] In 1872, this editor of *The New York Tribune* split with Grant and was nominated to run against him by the Liberal Republican Party and the Democratic Party. He died between the election and the counting of the electoral votes.

Answer: Horace **Greeley**

14. For 10 points each, identify some followers of Jesus.

[10] This close disciple identified Jesus with a kiss in the garden of Gethsemane [geth-SEH-mah-nee] after betraying him to the Romans for 30 pieces of silver.

Answer: **Judas** Iscariot

[10] This man from Tarsus was blinded by a vision of the resurrected Christ while on the road to Damascus. He converted to Christianity and wrote epistles to the Romans and Corinthians before being martyred.

Answer: Saint **Paul** the Apostle (accept **Saul** of Tarsus)

[10] This man was a fisherman from Galilee and the father of both John and James the Greater, two of the twelve central disciples of Jesus.

Answer: **Zebedee**



15. The four most prevalent of these compounds are water vapor, carbon dioxide, methane, and ozone. For 10 points each,

[10] Give this term for a gas that, in the atmosphere, absorbs and emits radiation from the Sun, helping fuel a namesake effect.

Answer: **greenhouse** gases (accept **greenhouse** effect)

[10] Greenhouse gases primarily absorb and emit this type of electromagnetic radiation, whose wavelength is just longer than that of visible light.

Answer: **Infrared** radiation (accept **IR** radiation)

[10] This Swedish chemist was one of the first to consider carbon dioxide's role as a greenhouse gas in warming the Earth's temperature. He also developed a notable definition for acid-base interactions.

Answer: Svante **Arrhenius**

16. Twenty-nine pilgrims travel with the narrator to the title shrine. For 10 points each,

[10] Name this Middle English work, in which characters like the Knight, the Pardoner, and the Nun's Priest take turns telling stories on their journey.

Answer: **Canterbury Tales**

[10] This episode from the Canterbury tales is told by a woman with gapped teeth. In it, a young knight is forced to wed an old woman to discover what women want from their husbands.

Answer: The **Wife of Bath**'s Tale

[10] The *Canterbury Tales* were written by this English author of *The Parliament of Fowls*.

Answer: Geoffrey **Chaucer**

17. One form of this phenomenon, produced by pressure on a crystal, is piezoelectricity. For 10 points each,

[10] Name this type of electrical build-up that often manifests as a spark or shock, and is contrasted with current electricity.

Answer: **static** electricity

[10] A static charge can be created by this type of generator, named for a Dutch physicist, that consists of two hollow metal spheres inside of which a silk ribbon is rubbed along a brush.

Answer: **Van de Graaf** generator

[10] A Van de Graaf generator can be connected to these devices to provide a high voltage supply. Examples of these include the Large Hadron Collider and the Tevatron.

Answer: particle **accelerators**

18. Identify some elements of French legends, for 10 points each.

[10] Gargantua and Pantegruel are both this type of enormous humanoid.

Answer: **giants**

[10] This French "prince of cats" appears in the Reynard cycle, and names Juliet's cousin in *Romeo and Juliet*.

Answer: **Tybalt**

[10] This French epic concerns a title knight of Charlemagne's army, who is betrayed by Ganelon. He dies when he sounds a warning horn so loudly that his temples burst.

Answer: The **Song of Roland** (accept La **Chanson de Roland**)

19. Name some Greek poets for 10 points each.

[10] This epic poet wrote the *Odyssey* and the *Iliad*.

Answer: **Homer**

[10] This woman from Lesbos was commonly referred to as the tenth muse, and wrote poems addressed to Cleis and Atthis.

Answer: **Sappho**

[10] This didactic poet wrote *Theogony* and described agricultural life in *Works and Days*.

Answer: **Hesiod**

20. For 10 points each, answer the following about World War I.

[10] Led by Franz Joseph the First, this dual-monarchy declared war on Serbia in July 1914.

Answer: **Austria-Hungary** (accept **Austro-Hungarian** Empire/Monarchy; do not prompt on partial answer)

[10] Austria-Hungary declared war on Serbia after this member of the Black Hand assassinated Archduke Franz Ferdinand.

Answer: Gavrilo **Princip**

[10] This German strategy, named for a former German field marshal, advocated sweeping through France, then transporting troops east to handle the slower-to-mobilize Russian forces.

Answer: **Schlieffen** Plan