

2011 SCOP Novice

Round 1

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TOSSUPS

1. **One work by this artist depicts a young man with a crown of roses sitting against a floral-patterned wall and holding a pipe. Another is tinted blue, and depicts a tattered man holding a guitar. In addition to (*) *Boy with a Pipe* and *The Old Guitarist*, this artist painted five prostitutes in a style inspired by African masks in *Les Femmes d'Alger* [lay duh-MWAH-zells dah-veen-YAHN] and painted the bombing of *Guernica* [GWAYR-nih-kah]. For 10 points, name this Spanish cubist.**

Answer: Pablo (Diego José Francisco de Paula Juan Nepomuceno María de los Remedios Cipriano de la Santísima Trinidad Ruiz y) **Picasso**

2. **After this event, its subject may wear tefillin and be counted as part of a minyan, or prayer quorum. Its subject is called for his or her first aliyah, then reads from the weekly parsha, or Torah portion. Participants in this event are religiously considered (*) adults after completing this ritual at the age of 12 for girls or 13 for boys. For 10 points, name this coming-of-age ceremony where Jewish children become adults.**

Answer: **bar mitzvah** or **bat mitzvah** (accept **b'nay mitzvah** or **b'not mitzvah**)

3. **Works by this author concern the homicidal Miss Grierson and the suicidal brother of Jason, Benjy, and Caddy. In addition to "A Rose for Emily" and *Absalom, Absalom!*, one of this author's novels contains the chapter "My mother is a fish," and describes the (*) Bundrens' journey to bury Addie in Jefferson, the seat of Yoknapatawpha [YAWK-nah-pah-TAW-fah] County. For 10 points, name this American author of *The Sound and the Fury* and *As I Lay Dying*.**

Answer: William **Faulkner**

4. **One speech by this man discusses the "money question" and the "tariff question." After the sinking of the *Lusitania*, he resigned from his position as Wilson's Secretary of State. This man said, "You shall not press down on the brow of labor this crown of thorns;" his support of (*) Free Silver and bimetallism culminated in that "Cross of Gold" speech. For 10 points, name this populist orator who ran for President as a Democrat three times.**

Answer: William Jennings **Bryan**

5. One class of these molecules produces either “sticky ends” or “blunt ends.” The efficiency of these molecules can be expressed as k_{cat} [k sub cat] over k_m [k sub m], and the Michaelis-Menten equation describes the rates of their reactions. They bind with specific substrates at their (*) active sites, and this specificity is described by the induced fit model. For 10 points, name these proteins that speed up chemical reactions, including amylases and lactases, that are the biological equivalent of catalysts.

Answer: enzymes (prompt on catalysts before mention; prompt on protein before mention)

6. This leader built a causeway to win the siege of Tyre, after distinguishing himself leading cavalry at the Battle of Chaeronea [kar-oh-nee-ah]. His generals, the Diadochi [“die”-AH-”doe”-”key”], ruled his empire after his death. He won the Battles of (*) Gaugamela and Issus against Darius III, and he named a city on the Egyptian Coast after himself. The son of Philip II of Macedon, for 10 points, name this conqueror of the Persian Empire, styled “the Great.”

Answer: Alexander the Great (accept Alexander III of Macedon; accept Alexander at the end)

7. In this work, Trinculo steals some clothes, and the lyrics “full fathom five” are sung by a character who was imprisoned by Sycorax. This play's title event leaves Antonio and Alonso at the mercy of a character who controls (*) Caliban and Ariel and attempts to get Ferdinand to marry his daughter, Miranda. The deposed Duke of Milan, Prospero, engages in sorcery in, for 10 points, which Shakespeare play?

Answer: The Tempest

8. One character on this show refers to a “locomotive that runs on us” in a montage. Its second season opens with Betty White attacking that character with a makeshift crossbow/noose supertool, and ends with (*) Pierce donating \$100,000 that he won in a paintball battle before seeming to leaving the Spanish study group led by Jeff Winger. Chevy Chase and Joel McHale appear in, for 10 points, what NBC sitcom set in an educational institution?

Answer: Community

9. This author attacked Edmund Burke's claim that wisdom is passed down through generations of nobility in *Rights of Man*, and argued against miraculous revelations and the divinity of the Bible in another work. He noted that (*) "These are the times that try men's souls," in *The American Crisis*, and argued for independence from Britain in a 1776 pamphlet. For 10 points, name this author of *The Age of Reason* and *Common Sense*.

Answer: Thomas Paine

10. The Mollweide [MALL-vy-duh] map projection preserves this quantity, which is given for solids of revolution by Pappus's first theorem. Gabriel's horn has an infinite amount of this quantity. It can be found (*) “under a curve” via integration, and for triangles using the semiperimeter in Hero's formula. For a circle, πr^2 gives, for 10 points, what quantity that for a rectangle is expressed as width times length?

Answer: area (accept signed area or surface area)

HALF TIME

11. If one of these objects has an ergosphere, energy may be extracted from it until it loses its angular momentum. If it does not possess electric charge, it will become the Schwarzschild type once it stops rotating. The (*) no-hair theorem states that mass, charge, and angular momentum are their only observable qualities outside the event horizon. For 10 points, name these astronomical objects from which not even light can escape.

Answer: black holes

12. One tributary of this river is the Tapajos, and it is formed by the confluence of the Mara  n and Ucayali Rivers. Maraj   Island lies at the mouth of this river, and the city of Bel  m lies near this river's delta. The pororoca, a famous tidal bore, travels up this river, and the city of (*) Manaus lies near this river's confluence with the R  o Negro. Traveling through a namesake rainforest, for 10 points, name this longest river of South America.

Answer: Amazon River or R  o Amazonas

13. This author of *Tales of the Alhambra* used pseudonyms like "Jonathan Oldstyle." One of his short stories concerns Abraham Van Brunt and Katrina Van Tassel. In another, a Dutch settler falls asleep in the Catskill Mountains. A long-dead Hessian pursues (*) Ichabod Crane in one of this author's works. For 10 points, name this author, whose collection *The Sketchbook of Geoffrey Crayon* includes "Rip Van Winkle" and "The Legend of Sleepy Hollow."

Answer: Washington Irving

14. Archimedes identified this quantity as the opposite of buoyancy, and Aristotle reasoned that the speed of a falling object was proportional to this quantity. Newton related inertia to this quantity; its unit is named for him. The value of this quantity for an object on the (*) moon is about one sixth of its value for the same object on earth. For 10 points, name this quantity that is the force exerted on an object by gravity.

Answer: weight (accept force of gravity before the end; prompt on force; do not accept "mass")

15. One novel by this author of *The Enchantress of Florence* describes Saladin Chamcha and Gibreel Farishta, who survive a plane crash over the English Channel. Though he received a fatwa for that novel, this author won a Best of the Booker prize for a novel in which (*) Parvati the Witch, Shiva, and Saleem Sinai are born on the night India gains independence. For 10 points, name this Indian author of *The Satanic Verses* and *Midnight's Children*.

Answer: Sir (Ahmed) Salman Rushdie

16. In late mythology, this figure became associated with Hathor. With Nephthys, she was one of the four children of Geb and Nut, the earth and sky, and she was the foster mother of Anubis in later myth. After Set cut this goddess's (*) husband into pieces, this mother of Horus brought her husband back to life, making him the ruler of the underworld. For 10 points, name this Egyptian goddess, the wife and sister of Osiris.

Answer: Isis (accept Aset, Eset, or Ese)

17. During House debate over this act, Lewis Campbell's filibuster resulted in violence. This act was criticized in the Peoria Speech by Abraham Lincoln, and the Republican Party was created to fight this act. Designed by Stephen Douglas, it provided for popular (*) sovereignty to determine the status of slavery by repealing the Missouri Compromise. For 10 points, name this 1854 act that created the two namesake territories in the Great Plains.

Answer: Kansas-Nebraska Act of 1854

18. This work opens with open fourths and fifths in the strings, leading to a tuning-inspired entrance of the fortissimo theme. The bass recitative [RESS-ih-tah-TEEV] "O friends, not these tones," in this work's "symphony-within-a-symphony" fourth movement introduces a poem by Friedrich (*) Schiller, "Ode to Joy." Finished when its composer was completely deaf, for 10 points, name this last symphony by Ludwig van Beethoven.

Answer: Symphony No. 9 in D minor, "Choral" (accept either underlined portion; accept Beethoven's Ninth and variants)

19. "Mesomerism" is also used to describe this phenomenon. Delocalized electrons are responsible for the visual depiction of this concept by multiple Lewis diagrams inside square brackets, and this concept causes the non-integer bond order found in (*) aromatic molecules. Present in nitrate, carbonate and benzene molecules, for 10 points, name this type of structure in which the length of carbon-carbon bonds is in between single and double.

Answer: resonance

20. This city contains a bridge, square, and university named after Emperor Charles IV. One action in this city was performed by Hussite followers of Jan Zizka, while another happened in 1618 and started the Thirty Years War. Besides those (*) "defenestrations," one 1968 event in this city saw a Soviet invasion end the "Socialism with a human face" championed by Alexander Dubček [DOOB-"check"] during its namesake "Spring." For 10 points, name this capital of Czechoslovakia.

Answer: Prague (accept Praha)

BONUSES

1. The Weimar Republic and post-World War II Hungary each experienced the “hyper” type of this phenomenon. For 10 points each,

[10] Name this economic situation that occurs when price levels rise while currency levels stay constant.

Answer: **inflation**

[10] Used to determine inflationary status, this economic variable measures the circulation of money over time.

Answer: **velocity** of money

[10] This valuable material is used to create a standard to act as a safeguard against inflation. It was utilized by the Bretton Woods system until 1971 to create a backing for world currencies.

Answer: **gold** standard

2. This event saw South Carolina declare the Tariffs of 1828 and 1832 unconstitutional. For 10 points each,

[10] Name this crisis, a forerunner to the pre-Civil War secession.

Answer: **Nullification** crisis

[10] The Nullification crisis occurred during the presidency of this Democrat, the seventh President, who opposed the Second Bank of the United States and was called "Old Hickory."

Answer: Andrew **Jackson**

[10] Jackson's first vice president was this supporter of Nullification. Along with Henry Clay and Daniel Webster, this South Carolina Senator was part of the "Great Triumvirate."

Answer: John Caldwell **Calhoun**

3. In Jainism, this entity cannot be influenced by any god or guru. For 10 points each.

[10] Name this concept found in Hinduism and Buddhism that reflects the cause and effect of one's actions.

Answer: **karma**

[10] Karma is an element of this term meaning circle of life. It refers to the condition of life that is continuously restarted with rebirth.

Answer: **samsara**

[10] A spirit that is no longer subjected to samsara is said to have reached this state, in which it is free from suffering and has achieved enlightenment.

Answer: **nirvana**

4. This biome consists of coniferous boreal forests whose trees have a low temperature threshold for growth. For 10 points each,

[10] Give this term, which describes tree-covered lands that make up the Earth's largest land biome.

Answer: **taiga**

[10] The taiga is slightly warmer than this other biome, whose permafrost makes it impossible for trees to grow.

Answer: **tundra**

[10] Instead of trees, a tundra's flora often includes moss and this combination of fungus and algae.

Answer: **lichens**

5. Prime Ministers from this party have included John Major and Margaret Thatcher. For 10 points each,

[10] Name this British political party, the biggest rival of the Labour Party.

Answer: **Conservative** (and Unionist) Party (accept **Conservatives**)

[10] This Conservative prime minister sought "peace for our time" by appeasing Hitler at the Munich Conference.

Answer: (Arthur) Neville **Chamberlain**

[10] This Conservative, the current British prime minister, leads a coalition between the Conservatives and the Liberal Democrats.

Answer: David (William Donald) **Cameron**

6. Identify some works of literature named for their subjects, for 10 points each.

[10] The protagonist of this Cervantes work is accompanied by Sancho Panza in his pursuit of the beautiful Dulcinea [dull-sihn-AY-ah].

Answer: The Adventures of **Don Quixote**

[10] This Italian treatise proposes that the end justifies the means, and that it is better for the titular ruler to be feared than loved.

Answer: The **Prince** (accept Il **Principe**)

[10] This French author wrote *The Stranger* about Mersault, whose failure to cry at his mother's funeral causes him to be convicted of murder. His other works include *The Plague* and *The Fall*.

Answer: Albert **Camus** [kah-MOO, but be lenient with pronunciation]

7. This follow up to 2007's *Neon Bible* won the 2011 Grammy for Album of the Year. For 10 points each,

[10] Name this 2010 album, whose songs include "Modern Man," "Ready to Start" and "We Used to Wait," sung by Win Butler.

Answer: *The* **Suburbs**

[10] *The Suburbs* is by this Canadian indie rock band, whose debut album *Funeral* includes the song "Wake Up."

Answer: **Arcade Fire**

[10] Terry Gilliam directed an Arcade Fire concert film at this New York City venue, which also hosted George Harrison's *Concert for Bangladesh* in 1971 and LCD Soundsystem's last concert in 2011. The NBA's Knicks and NHL's Rangers play here.

Answer: **Madison Square Garden** (prompt "MSG")

8. This *opera comique* [ko-MEEK] had a lackluster first run and the composer died after its thirtieth performance. For 10 points each,

[10] Name this opera, whose “Toreador [tor-ay-ah-dor] Song” is sung by the matador Escamillo [ess-ka-me-YOH] and whose Habanera is sung by the title gypsy girl.

Answer: **Carmen**

[10] Carmen was written by this composer, whose first opera, *The Pearl Fishers*, was also poorly received before gaining critical acclaim.

Answer: Georges **Bizet** [bee-ZAY]

[10] Vladimir Horowitz composed a set of *Variations on Carmen* for this instrument. Paul Wittgenstein commissioned numerous works for the left hand on this keyboard instrument after he lost his right arm in World War I.

Answer: **piano**

9. A “characteristic” one of these expressions is associated with every square matrix. For 10 points each,

[10] Name this type of mathematical expression, which are called cubic if their highest exponent is 3 or quadratic if their highest exponent is 2.

Answer: **polynomial** expression (accept **polynomial** equation)

[10] The highest exponent of a single-variable polynomial is known by this term. According to the Abel-Ruffini [AH-bul roo-FEE-nee] theorem, if this is five or more, the polynomial may not be solvable in radicals.

Answer: **degree**

[10] Abel lends his name to a class of groups that possess this property, which for addition states that a plus b equals b plus a . Division and subtraction do not possess this property.

Answer: **commutative** property (of addition) (accept word forms like **commutativity**)

10. Officially called the European Recovery Program, this plan is credited with indirectly improving political relations in Western Europe. For 10 points each,

[10] Name this plan, named for a Secretary of State, that provided European countries like Greece and Turkey with subsidies and loans to bolster post-World War II rebuilding.

Answer: **Marshall** Plan

[10] Marshall was the Secretary of State to this President, who authorized using the atomic bomb against Japan in World War II.

Answer: Harry S. **Truman**

[10] One criterion for receiving Marshall Plan aid was the adoption of this international economic concept, which seeks the reduction of protectionary tariffs. It is promoted in North America by NAFTA.

Answer: **Free trade** (be lenient; accept anything that suggests that international **trade** (or **commerce**, etc.) is **free** from governmental intervention)

11. Answer the following about a “twice-born” god from Greek myth. For 10 points each,
[10] Name this god of wine and divine inspiration who carried the Thyrsus [theer-sus]. His Roman counterpart was Bacchus.

Answer: **Dionysus**

[10] Dionysus was the son of Semele [seh-meh-lee] and this chief Greek god, the philandering husband of Hera. This god carried the unborn Dionysus in his thigh after Semele’s death.

Answer: **Zeus** (do not accept Jupiter)

[10] As an infant, Dionysus was cared for by this Greek messenger god who wore winged sandals.

Answer: **Hermes** (do not accept Mercury)

12. Eva St. Clare befriends the title character before both she and her father die. For 10 points each,

[10] Name this novel, subtitled “Life Among the Lowly,” in which the title slave is sold to Simon Legree and beaten to death.

Answer: **Uncle Tom’s Cabin**, or Life Among the Lowly

[10] *Uncle Tom’s Cabin* is the most famous novel of this woman, whose influence helped start the Civil War.

Answer: Harriet Beecher **Stowe**

[10] *Uncle Tom’s Children* is a collection of essays by this Harlem Renaissance author of *Native Son* and *Black Boy*.

Answer: Richard **Wright**

13. Imperial rule was reinstated during this period. For 10 points each,

[10] Name this period which ended the Tokugawa era. Emperor Mutsuhito modernized his nation during this period, beginning in 1868.

Answer: **Meiji** [may-jee] Restoration (accept **Meiji** Ishin; accept any of the following, accompanied by Meiji: Period, Era, Renewal, Revolution, Revival)

[10] The Meiji Restoration took place in this Asian nation. The Meiji Emperor made Tokyo this nation’s capital in 1869.

Answer: State of **Japan** (accept **Nippon**-koku or **Nihon**-koku)

[10] Before the Meiji Restoration, Japan was ruled by these feudal military leaders. The Kamakura and Tokugawa periods were governed by this type of ruler.

Answer: **shoguns** (accept **shogunates**)

14. The title character is related to Dolly, Kitty, and Stiva. For 10 points each,

[10] Name this novel, in which the title character throws herself under a train after a failed romance with Count Vronsky.

Answer: **Anna Karenina**

[10] *Anna Karenina* is by this Russian author of *War and Peace*.

Answer: Leo Nikolayevich **Tolstoy**

[10] This Tolstoy work follows the career of the title Judge Golovin, the husband of Praskovya, who expires after hitting his side while hanging drapes.

Answer: The **Death of Ivan Ilyich**

15. Compounds of this class have names ending with -al. For 10 points each,

[10] Name this class of compounds, similar to ketones [key-tones], which contain only one R group and a hydrogen atom.

Answer: **aldehydes** [al-deh-“hides”]

[10] Aldehydes and ketones both contain this functional group. Aldehydes have it on a terminal carbon, while ketones do not. It consists of a carbon atom double bonded to an oxygen atom.

Answer: **carbonyl** [car-bonn-ul] group

[10] Aldehydes and carbonyls are studied in this branch of chemistry, the study of carbon-containing compounds.

Answer: **organic** chemistry (prompt on “**o-chem**”)

16. These entities carry genetic material in a cell’s nucleus. For 10 points each,

[10] Name these vectors of heredity, of which the sex variety comes in X and Y types. They are composed of chromatin, and pairs of these split during mitosis.

Answer: **chromosomes**

[10] Humans have this many pairs of chromosomes. It is also the number of chromosomes a child receives from each parent.

Answer: **23**

[10] Sister chromatids are joined here. In mitosis, mitotic spindle fibers attach here during metaphase, and during anaphase sister chromatids are split here.

Answer: **centromeres** (do not accept centrosome)

17. Recently Stephen Colbert formed a "Super" one of these, running its first TV ads in Iowa in advance of the Ames Straw Poll in August. For 10 points each,

[10] Give this type of independent political group that, since 2010, is allowed to make large expenditures to advance a particular issue or candidate independently of that candidate.

Answer: Super **Political Action Committees** [or Super **PACs**]

[10] This January 2010 Supreme Court decision struck down the 2002 McCain-Feingold Campaign Finance Reform bill, paving the way for the formation of "Super" PACs.

Answer: **Citizens United** v. Federal Election Commission

[10] Another kind of lobbying group is the “527,” like "Swift Boat Veterans for Truth," which ran ads attacking this Senator from Massachusetts during his 2004 Democratic Presidential campaign.

Answer: John **Kerry**

18. Identify some literary men with wild lives, for 10 points each.

[10] This legendary Spanish playboy is pursued by the stone ghost of Don Gonzalo, who pulls him to hell for seducing Donna Anna in works like *Man and Superman*.

Answer: **Don Juan** (accept Don **Giovanni**)

[10] *Don Juan* [don JOO-an] is a satirical poem by this libertine British poet of *Childe Harold's Pilgrimage* and “She Walks in Beauty.”

Answer: Lord George Gordon **Byron**

[10] This wild British playwright died at age 29, after writing an account of *Doctor Faustus*. He also wrote *The Jew of Malta* and *Tamburlaine*.

Answer: Christopher “Kit” **Marlowe**

19. For 10 points each, identify an artist and his works.

[10] This Italian sculpted a horned *Moses* and painted Adam touching the finger of God on the Sistine Chapel ceiling.

Answer: **Michelangelo** Buonarroti

[10] This sculpture by Michelangelo depicts a legendary Jewish king standing casually with his slingshot over his shoulder, as he prepares to slay the giant Goliath.

Answer: **David**

[10] This other Michelangelo sculpture shows a young Virgin Mary cradling the adult corpse of Jesus as if she were holding her infant child.

Answer: **Pietà**

20. For 10 points each, give the following about simple machines:

[10] Levers are classified according to the position of this point, around which they pivot.

Answer: **fulcrum**

[10] This simple machine can be classified as an inclined plane wrapped around a cylinder. Archimedes used it to pump water.

Answer: **screw**

[10] This quantity for a simple machine is the ratio of the output force to the input force.

Answer: ideal **mechanical advantage** (prompt on **leverage**)