

2020 SCOP B

Round 2

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Tossups

(1) **This man exclaimed, “so I come here tonight to go to bed” in a 2:00 AM speech at the University of Michigan that introduced the idea of the Peace Corps. This man asked, “why does Rice play Texas?” to illustrate that “we choose to go to the (*) Moon in this decade” because it is difficult. This man defeated a fatigued-looking Richard Nixon in the first televised presidential debate. For ten points, name this president who commanded, “ask what you can do for your country” during his 1961 inauguration.**

ANSWER: John F. Kennedy (accept JFK; accept John Fitzgerald Kennedy; prompt on “Kennedy”)

(2) **The story of this deity’s abduction was reenacted in the Telesterion during a ritual that honored this deity’s mother. Also called “Kore,” [koh-ray] or “the Maiden,” this goddess was the subject of the Eleusinian Mysteries along with (*) Demeter, from whom this goddess is separated during the winter months because she ate the seeds of a pomegranate in her husband’s realm. For ten points, name this Greek goddess of the underworld, the wife of Hades.**

ANSWER: Persephone (accept Kore before it is read)

(3) **A character created by this author is slapped by her uncle Jack after returning home to meet her boyfriend, Hank Clinton. This author worked on *In Cold Blood* with Truman Capote, who inspired this author’s character Dill Harris. (*) *Go Set a Watchman* is the sequel to this author’s novel about the trial of Tom Robinson, who is falsely accused of attacking Mayella Ewell in Maycomb, Alabama. For ten points, name this author who wrote about Atticus and Scout Finch in *To Kill a Mockingbird*.**

ANSWER: Harper Lee (accept Nelle Harper Lee)

(4) **In a painting of this scene, nearly-transparent angels circle a hanging brazier over a man in a pink and blue robe, who offers a drink to one of his companions. Tintoretto painted a diagonally-aligned table in this scene, which was also depicted in a mural that shows (*) John and Peter leaning toward each other in surprise while Judas leans away from the central figure. For ten points, name this biblical scene that, in a painting by Leonardo da Vinci, shows Jesus and his disciples consuming a final meal.**

ANSWER: The Last Supper (accept l’Ultima Cena)

(5) **Visible evidence of these events includes Love waves and Rayleigh waves. In low-density soil, these events can cause liquefaction, essentially turning soil into quicksand. In the central United States, the incidence of these events is increased by (*) fracking, but their epicenters are more commonly found on the Pacific coast. Aftershocks often follow, for ten points, what destructive events, the result of seismic waves generated by the motion of the Earth’s crust?**

ANSWER: earthquakes

(6) A poem in this style addresses “you who hear the sound, in scattered rhymes,” and is by a poet who frequently addressed his work to Laura. Poems in this style by Petrarch are usually made up of an (*) octave and a sestet. Another poet wrote “so long as men can breathe, or eyes can see, / so long lives this” in the final couplet of a poem in this style that asks “Shall I compare thee to a summer’s day?” For ten points, Shakespeare used iambic pentameter to write many of what fourteen-line poems?

ANSWER: sonnets (accept sonetto; accept Shakespearean sonnets; accept Elizabethan sonnets; accept Petrarchan sonnets; accept Italian sonnets; accept Il Canzoniere before “style” is read; prompt on “poems by Petrarch” before “another poet” is read)

(7) The smallest cardinal number with this property is aleph-null. This concept is analyzed by Hilbert’s Grand Hotel thought experiment, which considers how to accommodate this many (*) guests in this many rooms. In the function “y equals one over x,” y approaches this value as positive x values get closer to zero. For ten points, the long-term growth of an exponential function has what property of limitless size, often represented by a sideways eight?

ANSWER: infinity (accept word forms like infinite)

(8) To recover in time for this battle, one general used rhubarb, garlic, and liquor to rub his wounds when his horse fell on him at Ligny [lih-NYEE]. The Seventh Coalition’s victory in this battle, which included fighting at (*) Quatre Bras [kaht-rah brah] and Le Haye Sainte [le HAY SANT], ended the Hundred Days. The Duke of Wellington led British troops at this battle in modern Belgium. For ten points, name this 1815 battle that finally ended Napoleon’s rule of France.

ANSWER: Battle of Waterloo

(9) Kinetic theory assumes that particles in this phase of matter have energy equal to three-halves multiplied by a universal constant, temperature, and the number of moles of a substance in this phase. The letter *b* describes the size of molecules of this phase of matter in the (*) van der Waals’ equation. Charles’ and Boyle’s laws apply to this phase of matter, which does not have a definite shape or volume. For ten points, name this phase of matter whose particles are separated much more than those of liquids or solids.

ANSWER: gas (accept real gas and/or ideal gas)

(10) In 2020, a prankster known as “Fake Nate” impersonated a Peoria, Illinois property owner to commission a Soviet-style mural of this character on a building he did not own. In a 2017 Wired video, this character said he lives in a rent-controlled apartment near building (*) number 123. In a 2004 episode, this character revealed his birth name was “Sid” during a song about “The First Time Me Ate” his signature food. For ten points, name this Sesame Street character, a fuzzy blue monster who enjoys sweet snacks.

ANSWER: (The) Cookie Monster (accept Sidney Monster before “Sid” is read; prompt on “Monster”)

(11) **This literary character and his wife, Badr al-Badur, are tricked by a man claiming to be the brother of this man's father, Mustapha the tailor. Antoine Galland added this character's namesake story to a collection of folktales in which this character marries the daughter of a (*) sultan after discovering treasure in a mystical cavern. For ten points, name this character from the *Thousand and One Nights* who rubs a magic ring and a magic lamp to summon powerful djinns [jeens].**

ANSWER: Aladdin (accept Ala ud-Din or Ala ad-Din)

(12) **The construction of one of these structures caused the extinction of the *baiji* [bah-ee-jee]. Until shortly after 9/11, cars using US Route 93 drove on one of these structures at the border of Nevada and Arizona. Argentina briefly opposed the building of one of these structures, named (*) Itaipu, between Paraguay and Brazil on the Paraná River. Hydro-electricity is generated by these structures. For ten points, a reservoir on the Colorado River is created by what kind of structure named for Herbert Hoover?**

ANSWER: dams (accept Three Gorges Dam, Hoover Dam, and/or Itaipu Dam)

(13) **The Klein-Nishina formula predicts whether these particles undergo an effect named for Thomson or one named for Compton. Planck's constant times frequency gives the energy of these particles, which interfered with each other in (*) Young's double-slit experiment. Electrons are emitted from matter by the strike of these particles in the photoelectric effect. For ten points, name these quanta of light, massless particles that move at the speed of light.**

ANSWER: photons

(14) **This concept's price elasticity was studied by Alfred Marshall in a landmark 1890 textbook. Some exceptions to the "law of" this concept are known as "Veblen goods," many examples of which are (*) expensive luxury items. Graphs of this quantity against price typically have a negative slope, and this economic quantity has a commonly studied inverse relationship with supply. For ten points, give this term for the amount of a good that consumers want to buy.**

ANSWER: demand (accept (price) elasticity of demand; accept law of demand; prompt on "supply and demand" before "supply" is read)

(15) **This body of water was refilled by the Zanclean flood over five million years ago, ending the Messinian salinity crisis. The Barbary Coast was along this body of water, which lies west of the Levant and south of (*) Asia Minor. The Strait of Gibraltar separates this sea from the Atlantic Ocean, and its Aegean and Adriatic Seas were considered part of "the Great Sea" by the ancient Greeks and Romans. For ten points, name this sea that separates Europe and Africa.**

ANSWER: Mediterranean Sea

(16) **One of these religious things in Udvada was created by combining sixteen of these things, one of which came from a lightning strike, and is classified as an Atash Bahram. These things are an aspect of Ahura Mazda in (*) Zoroastrianism, whose believers worship in namesake temples where priests maintain “eternal” ones of these. Zoroastrians expose the dead on Towers of Silence to avoid contaminating, for ten points, what substance used to cremate dead bodies?**

ANSWER: fires (accept flames; accept Atash before it is read; accept atar or adar before “Atar” is read; accept athra; accept atarsh)

(17) **This instrument is featured with orchestra in Rachmaninoff’s *Rhapsody on a Theme of Paganini*. A Paganini violin concerto inspired another work for this instrument by Franz Liszt, nicknamed “La (*) campanella.” “Quasi una fantasia” is the alternate title of a work for this solo instrument that evokes light on Lake Lucerne, Beethoven’s “Moonlight Sonata.” The right hand of Chopin’s “Black Key Étude” almost entirely avoids fifty-two of the eighty-eight keys on, for ten points, what common keyboard instrument?**

ANSWER: piano (accept pianoforte; prompt on “keyboard” before it is read)

(18) **This woman helped the Fifty-Fourth Massachusetts Infantry Regiment rescue hundreds of people during the Raid on Combahee Ferry. John Brown asked this woman to help him recruit soldiers for his 1859 attack on (*) Harpers Ferry. This woman “never lost a passenger” during thirteen missions in which she led people through the Underground Railroad. For ten points, name this woman, nicknamed “Moses,” who helped dozens of slaves escape the South.**

ANSWER: Harriet Tubman (accept Araminta Ross)

(19) **This literary character resolves not to keep pepper in her kitchen after tending to a pig-like baby in the home of a Duchess. This character kicks Bill up a chimney, and confiscates his squeaky pencil during a trial presided over by the (*) King of Hearts. After inviting herself to a tea party, this character argues with a Dormouse, a March Hare, and a Mad Hatter. For ten points, name this fictional girl who, in novels by Lewis Carroll, has *Adventures in Wonderland*.**

ANSWER: Alice (accept Alice’s Adventures in Wonderland or Alice in Wonderland; accept either name of Alice Liddell)

(20) **A disease of these organelles called MERRF syndrome causes them to appear as ragged red fibers. Cytochrome c is released from this organelle to start apoptosis. The inner membrane of this organelle is home to the (*) electron transport chain, and its inner matrix contains DNA inherited only from the mother. The second half of cellular respiration and the synthesis of ATP take place in, for ten points, what organelle, nicknamed the “powerhouse of the cell?”**

ANSWER: mitochondria (accept mitochondrion)