

# Prelim Round 4

## Tossups

(Tossup 1) In this novel, Charlotte Palmer takes her baby to safety while Mrs Jennings remains at Cleveland to care for one of the protagonists. Eliza is abandoned in this novel by John Willoughby, whose cruel actions are revealed by Brandon, a colonel who offers Lucy Steele's fiancé, Edward Ferrars, a chance to become a vicar. Brandon and Edward end up marrying Marianne and Elinor Dashwood in, for the point, what Jane Austen novel contrasted with *Pride and Prejudice*?

ANSWER: Sense and Sensibility

(Tossup 2) Solutions can gain the “super” form of this property if they are heated to high temperatures and then quickly cooled. This term describes organic compounds with only single bonds, as well as solutions that will not dissolve any additional solute. For the point, name this term applied to states containing the largest amount of something, such as fatty acids containing the maximum number of bonds to hydrogen or, in earth science, soil containing the maximum amount of water.

ANSWER: saturation (accept word forms like saturated; accept supersaturated)

(Tossup 3) A children's chorus in this opera sings “Avec la garde montante” [ah-vek lah gard mohn-tahn-teh] during the changing of the guard. One character in this opera tries to predict her future with tarot cards, but every arrangement she produces foretells her death. The title character of this opera declares “love is a rebellious bird” before throwing a flower to Don José. The Habanera is sung in, for the point, what Georges Bizet [bee-zay] opera about a title Rromani girl?

ANSWER: Carmen

(Tossup 4) This man was forced to resign after he supported an attack on the Transvaal that helped spark the Second Boer War. Ian Smith founded an unrecognized country named after this man in 1964. This supporter of the Jameson Raid also founded a company that, throughout the 20th century, held a monopoly on diamonds. For the point, name this founder of the De Beers company who supported the Cape to Cairo railway project.

ANSWER: Cecil Rhodes

(Tossup 5) Pronghorns in the western end of this desert inspired the name of its Antelope Valley. Victorville and Palmdale are among the cities on the edge of this desert. Badwater Basin is the lowest point in this desert, which is partly bound by the San Bernardino Mountains. Temperatures of over 130 degrees have been measured in this desert's Death Valley. For the point, name this desert found in southeastern California.

ANSWER: Mojave Desert (prompt on Death Valley only after “Badwater” has been read and before it itself is read; do not accept Death Valley before “Badwater”)

(Tossup 6) An explorer in this novel names a river the Hansbach and discovers Axel Island. This novel's protagonists discover a note written by Arne Saknussemm that directs them through a crater in the Snaefell mountain to a place where they find a twelve-foot-tall prehistoric man and an ichthyosaurus in a series of underground caverns. For the point, name this novel by Jules Verne about the travels of Professor Lidenbrock and his companions to the middle of the planet.

ANSWER: A Journey to the Center of the Earth (accept Voyage au centre de la Terre)

(Tossup 7) Members of this religion maintain their livity by following the Ital diet ["eye"-toll diet]. This religion celebrates Grounation Day and Coronation Day, the celebration of the ascension of the "Conquering Lion of Judah." Adherents of this religion venerate the Ethiopian emperor Haile Selassie as the second coming of Jesus by wearing dreadlocks and smoking cannabis. For the point, name this Jamaican religion.

ANSWER: Rastafari (accept Rastafarianism)

(Tossup 8) This man chaired the Commision for Relief in Belgium and later, as Secretary of Commerce, helped the victims of the Great Mississippi Flood. During this man's administration, over 1,000 economists signed a petition asking him to veto the Smoot-Hawley tariff. Shanty towns built by the homeless were named after this President, who they blamed for the Great Depression. For the point, name this Republican President who was succeeded by Franklin Delano Roosevelt.

ANSWER: Herbert Hoover

(Tossup 9) Sergio Moro has investigated a scandal in this country that was named for a money transfer site at Tower Gas Station. Operation Car Wash, a money laundering scandal in this country, has led to corruption charges against businessmen like Marcelo Odebrecht and politicians like Luiz Inacio Lula da Silva and its recently impeached president, Dilma Rouseff. The oil company Petrobras is based in, for the point, what South American country where outrage over government corruption led to street protests in Rio de Janeiro.

ANSWER: Federative Republic of Brazil

(Tossup 10) Christiaan Huygens wrote a book on how this object can be used to model time. The small angle approximation "sine theta equals theta" allows this object to be modeled as a simple harmonic oscillator. When two of these devices are hooked together, they exhibit chaotic motion. The Earth's rotation was demonstrated by one of these devices named for Léon Foucault [foo-koh]. For the point, name this simple system consisting of a mass swinging on a string, as often used in grandfather clocks.

ANSWER: pendulum (prompt on "(simple) (harmonic) oscillator" before mentioned)

(Tossup 11) In a 1683 battle for this city, Jan III Sobieski's Winged Hussars carried out the largest cavalry charge in history. Suleiman the Magnificent failed to capture this city in 1529, starting a century of failed Ottoman attempts to conquer it. Klemens von Metternich called a "congress" to discuss European boundaries in the wake of the Napoleonic Wars in, for the point, what capital of Austria?

ANSWER: Vienna (accept Wien)

(Tossup 12) This concept, which was illustrated with a 13th century example involving two mating rabbits, was studied extensively by Édouard Lucas [loo-kah], who names a more general form of this concept that allows for any two starting numbers. This sequence includes 34, 55, and 89, which is the sum of 34 and 55. For the point, name this mathematical sequence that begins 0, 1, 1, 2, 3, 5, 8 and finds the next term by adding the two previous terms.

ANSWER: Fibonacci sequence (accept Fibonacci numbers, etc.)

(Tossup 13) This author of *Somnium* is the namesake of a massive 1604 supernova that he observed from Prague. This man discovered that a line connecting a planet to the Sun would sweep out equal areas during equal intervals of time. In his *Astronomia nova*, this assistant to Tycho Brahe concluded that “all planets move in ellipses.” For the point, name this German scientist who formulated three laws of planetary motion.

ANSWER: Johannes Kepler

(Tossup 14) This goddess raised the infant Erichthonius in secret by placing him in a box. In one story about this goddess’s birth, Zeus tricked Metis into becoming a fly and then swallowed her, leading this goddess to spring from Zeus’s mind fully clothed in armor. This goddess competed with Poseidon in a contest in which she produced an olive tree, which the Greeks judged to be more useful than a salty spring. For the point, name this Greek goddess of wisdom.

ANSWER: Athena (do not accept Minerva)

(Tossup 15) At the end of this play, Marshall Willard leads a group of people to a public execution, despite the objections of John Hale. This play opens in Betty’s bedroom, where her father tries to persuade his niece to tell him why she was dancing in the forest with the slave Tituba. In this play, Rebecca Nurse is convicted of infanticide by Samuel Parris due to the testimony of Abigail Williams, who also provides testimony against Elizabeth and John Proctor. For the point, name this play by Arthur Miller about the Salem witch trials.

ANSWER: The Crucible

(Tossup 16) These molecules can be marked for destruction by ubiquitination, and introns are not included in these molecules. Misshapen ones of these molecules that cause disease are called prions. These molecules’ secondary structures include alpha helices and beta sheets. These molecules are made up by a set of twenty common subunits which includes lysine, proline, and tryptophan. For the point, name this biological macromolecule that is created by translation in ribosomes and are made up of amino acids.

ANSWER: proteins (prompt on “peptides” or “polypeptides”)

(Tossup 17) A critique of this painting by Louis Leroy coined the name of a group of artists that included Berthe Morisot and Camille Pissarro. A series of quick, dark brushstrokes in the center of this painting show the shadows of waves in front of light blue, shadowy boats moored in the port of Le Havre. A dark rowboat is in the foreground of, for the point, what painting of the early morning created by Claude Monet, which named the Impressionist movement?

ANSWER: Impression, Sunrise (accept Impression, soleil levant)

(Tossup 18) This leader was targeted by the Kosciuszko [ko-shoo-sko] Rebellion in Poland, which prompted the creation of the Confederation of the Bar. Jews in this leader's country were confined to the Pale of Settlement. Grigory Potemkin built sham villages in Crimea to impress this ruler, who was targeted by Pugachev's Cossack revolt. The Hermitage Museum was created out of the personal collection of, for the point, what enlightened Tsarina of Russia?

ANSWER: Catherine the Great (accept Catherine II; prompt on Catherine)

(Tossup 19) This novel ends with the section "The Track of a Storm," in which a character thinks, "It is a far, far better thing that I do, than I have ever done" before his execution. In this novel, the St Evrémont chateau is burned to the ground, and Dr Alexandre Manette is released from the Bastille after eighteen years. Charles Darnay is condemned in this novel through the efforts of Defarge, though Sydney Carton is later guillotined in his place. For the point, name this novel by Charles Dickens which begins by saying, "It was the best of times, it was the worst of times."

ANSWER: A Tale of Two Cities

(Tossup 20) At this location in 1792, a group of two dozen people signed the Buttonwood Agreement. This place's name is the result of a massive series of ramparts built to protect it from Native Americans and the British. This site is the location of Federal Hall, where the First Congress met, and a modern bronze statue of a charging bull. This location is home to the NASDAQ and the New York Stock Exchange. For the point, name this street in New York which lends its name to America's financial sector.

ANSWER: Wall Street

(Tossup 21) This body system can be damaged through the presence of protein aggregates known as Lewy bodies. The enteric division of this system controls the gastrointestinal tract, while "rest and digest" functions are controlled by this system's parasympathetic division. This system can be damaged through demyelination, which can lead to multiple sclerosis. For the point, name this body system of which the brain and the spinal cord make up the "central" part.

ANSWER: nervous system

(Tossup 22) This building's central dome is sometimes described as *amrud*, or guava shaped. This building was described as "a tear on the face of eternity" by poet Rabindranath Tagore. The architect Ahmad Lahor designed this building as well as the nearby Red Fort. This structure is found on the southern shore of the Yamuna River in Agra. For the point, name this white marble mausoleum dedicated to the wife of Shah Jahan in India.

ANSWER: Taj Mahal

(Tossup 23) According to Herodotus, the people of a certain country would shave their eyebrows if one of these animals died, to signify a great loss. At the cemetery site of Beni Hasan, archaeologists discovered thousands of these animals mummified. The Egyptian goddesses Mafdet and Bastet both had the heads of this animal. For the point, name this small domesticated animal revered by Egyptians for their ability to kill cobras and mice.

ANSWER: housecats (accept domestic cats; accept felines)

(Tossup 24) Mike Mansfield introduced a “two-track system” to prevent this action from causing unrelated delays. Rule 22 expresses how this process can be brought to an end if three-fifths of a central body agrees to cloture. In 2013, Ted Cruz used this process to stall a vote on Obamacare for over 21 hours. The “nuclear” option would end, for the point, what political process of potentially infinite debate, used in the US Senate?

ANSWER: filibustering

(Tossup 25) A collection of poems in this form describe a “Chequer-board of Nights and Days” and says “The Moving Finger writes; and, having writ, / moves on,” and were translated by Edward FitzGerald. Omar Khayyam’s *Rubaiyat* is a collection of this type of poem, including one that requests “a jug of wine, a loaf of bread, and thou” and has an A-A-B-A rhyme scheme. For the point, name this type of verse composed of four lines.

ANSWER: quatrains (accept rubai or rubaiyat before it is read)

(Tossup 26) The Overland Campaign took place in this state, where soldiers clashed at the Battle of the Wilderness. In 1861, 39 counties from this state seceded after the Wheeling Convention. An army based in this state often faced the Army of the Potomac and was commanded by Robert E. Lee. The Battles of Bull Run occurred in this state just a few miles outside of Washington D.C. For the point, name this state that contained the capital of the Confederacy, Richmond.

ANSWER: Commonwealth of Virginia

(Tossup 27) Several members of this family contributed to a “Notebook” for Anna Magdalena, a matriarch of this family. Georg Telemann was succeeded as Kapellmeister of Hamburg by a member of this family, Carl Philipp Emanuel. The most famous member of this family wrote works such as the *Goldberg Variations* and *The Well-Tempered Klavier*. For the point, name this family of German composers led by Johann Sebastian.

ANSWER: Bach family

(Tossup 28) A “Torable” observatory to study these phenomena was invented in 1979, but was never successfully deployed. This phenomenon, which comes in wedge, rope, and stovepipe varieties, often develops from a mesocyclone inside a supercell. When one of these events occurs over a body of water, it is known a waterspout. The damage of these events is measured on the Fujita scale. For the point, name this weather phenomena of rotating columns of high-speed winds that commonly affects the Midwest in a namesake “Alley.”

ANSWER: tornadoes (prompt on twister, cyclone, or other colloquial terms; prompt on waterspout before it is read)

(Tossup 29) This poem's speaker declares that "the moon never beams without bringing [him] dreams" of his beloved, who can't be separated from him even by "the demons down under the sea." The title character of this poem is shut in a "tomb by the sounding sea" by her "highborn kinsmen" after "a wind came out of a cloud by night" "in a kingdom by the sea." For the point, name this poem, in which Edgar Allan Poe describes the wind "chilling and killing" the title woman.

ANSWER: Annabel Lee

(Tossup 30) In geometry, the Power of a Point reflects how far a point is from one of these objects. Thales' [thay-leez] Theorem involves a right triangle inscribed in one of these shapes. For an equilateral triangle, the medians and altitudes intersect at the center of one of these shapes that circumscribes the triangle. A sphere is the three dimensional analogue of, for the point, what shape whose area is given by pi multiplied by its radius squared?

ANSWER: circle

## Replacements

(Tossup 31) The beginning of this literary genre is often attributed to Walpole's *The Castle of Otranto*. *Paul Clifford*, by Edward Bulwer-Lytton, captures this genre's atmosphere with the opening line, "It was a dark and stormy night." Twentieth-century entries in this genre include *The Mountains of Madness* and "The Call of Cthulhu," both by H.P. Lovecraft. For the point, name this literary genre associated with dark, dramatic scenes and grim plots.

ANSWER: Gothic literature (accept Gothic horror or Gothic romance; accept Gothic fiction; accept Gothic novels; prompt on "horror" before it is read)