

CEESA Bowl Round 8

First Half

(Tossup 1) **This god has eight forms called the Ashta Bhairava, which are responsible for the world's directions. This god was won over by his wife while listing his flaws in disguise; earlier he had incinerated the love god Kamadeva.** (*) In order to preserve the world's knowledge, this god suppresses the dwarf Aspmara with his right foot. The white bull Nandi was a gift to this god. This god beheaded his son Ganesha while his wife Parvati was bathing. Ftp, name this "Destroyer" god of the Hindu Trimurti.

ANSWER: **Shiva**

(Bonus 1) This goddess obtained the Brísingamen necklace by sleeping with each of the four dwarves who made it. For ten points each,

[10] Name this Vanir Norse goddess who was sent as a hostage at the end of the Aesir-Vanir war. This goddess's realm Fólkvangr receives half the warriors who die in battle.

ANSWER: **Freyja**

[10] Freyja lives in this Norse realm of the gods, which is ruled over by Odin. This realm is connected to the world of people by the Bifrost, and it contains the afterlife destination Valhalla.

ANSWER: **Asgard**

[10] Freyja rides a chariot pulled by two of these animals. Thor was unable to lift one of these animals when challenged to do so by Utgard-Loki, because it was actually the Midgard Serpent.

ANSWER: **cats**

(Tossup 2) **This kingdom gained independence from the Telmarines at the Second Battle of Beruna following the death of King Miraz. This kingdom's tenth king, Gale, was the first to be crowned "Emperor of the Lone Islands." This kingdom suffered** (*) endless winters under the rule of Jadis, or the White Witch. Rulers of this kingdom include Caspian. For ten points, name this kingdom ruled by the Pevensie children, which titles a chronicle by C.S. Lewis

ANSWER: **Narnia**

(Bonus 2) This novel follows the affairs of several families, including the Bolkonskys and the Rostovs, and describes Napoleon's 1812 invasion of Russia. For ten points each:

[10] Name this extremely long Russian novel set between 1805 and the 1820s.

ANSWER: **War and Peace** (accept *Voyna i mir*)

[10] This Russian author wrote *War and Peace* and *Sevastopol Sketches*.

ANSWER: **Leo Tolstoy** (accept Lev Nikolayevich **Tolstoi**)

[10] Tolstoy also wrote this novel, in which the title noblewoman throws herself under a train because she suspects her lover, Count Vronsky, is unfaithful to her.

ANSWER: **Anna Karenina**

(Tossup 3) **Cone-shaped hills called pingos form in regions containing this substance, which can be separated by a layer of ground called a talik. The mixing of layers within this substance is called cryoturbation, which occurs within the turbel portion of gelisols.** (*) The discontinuous form of this type of soil thaws during the summer months. Ftp, name this ground layer that remains frozen year-round often found in the tundra.

ANSWER: **permafrost** (prompt on soil before mention)

(Bonus 3) These phenomena have zero amplitude at amphidromic points. For 10 points each: [10] Name these phenomena in which sea levels rise and fall periodically due to gravitational influences.

ANSWER: **tides**

[10] When the moon is at this phase, spring tides occur. This position of the lunar cycle is necessary for a solar eclipse.

ANSWER: **new moon**

[10] This type of tidal pattern recurs every once a day, unlike its "semi" type which recurs twice a day. The Gulf of Mexico primarily has this tidal pattern.

ANSWER: **diurnal tides**

(Tossup 4) **Part of this structure is kept at the Main Street Station Casino Hotel, where it is placed behind the urinals in the men's room. Dmitri Vrubel graffitied the side of this structure with a painting of Leonid Brezhnev and Erich Honecker kissing. This** (*) structure could be crossed at Checkpoint Charlie. Ronald Reagan urged Mikhail Gorbachev to "tear down" this structure. For ten points, name this barrier that formerly split the capital of Germany.

ANSWER: **Berlin Wall** (accept **Berliner Mauer**)

(Bonus 4) Aristotle tutored this man, who became the ruler of Macedonia after the death of his father Philip II. For ten points each,

[10] Name this leader who defeated and conquered the Persian Empire in the 4th Century BC.

ANSWER: **Alexander the Great** (or **Alexander III** of Macedon; prompt on Alexander)

[10] The ancient kingdom of Macedonia is in the northern part of this present-day country.

ANSWER: **Greece**

[10] Philip and Alexander made use of this military formation, in which heavy infantry fight in a square and wield spears and shields. It was the dominant formation of ancient Greek warfare.

ANSWER: **phalanx**

Sixty-Second Round

The categories are...

1. The Hunchback of Notre Dame
2. A Cellular Organelle
3. The Incan Empire

A cellular organelle

The powerhouse of the cell is...

Part 1: a common name for what organelle?

ANSWER: **mitochondria**

Part 2: Mitochondria create which molecule, the energy currency for the cell?

ANSWER: **ATP** or **adenosine triphosphate**

Part 3: Which part of cellular respiration occurs in the mitochondrial matrix and starts with pyruvate?

ANSWER: **Krebs cycle** or **citric acid cycle** or **tricarboxylic acid cycle** or **TCA cycle**

Part 4: Mitochondria also release cytochrome C during which process of programmed cell death?

ANSWER: **apoptosis**

Part 5: What theory proposes that mitochondria were prokaryotic cells absorbed by other cells to form eukaryotes?

ANSWER: **endosymbiotic theory** or **endosymbiosis** or **sybiogenesis**

Part 6: Mitochondria generate heat in in the brown type of what tissue that stores fat?

ANSWER: **adipose**

The Hunchback of Notre Dame

In relation to the novel The Hunchback of Notre Dame, who or what is...

Part 1: The job of the title man, Quasimodo, who lives in the cathedral?

ANSWER: **bellringer** (accept word forms like ringing bells)

Part 2: The author of the book, who also wrote Les Misérables?

ANSWER: Victor **Hugo** (accept **Victor Marie Hugo**)

Part 3: The beautiful street dancer who was switched with Quasimodo as a baby?

ANSWER: La **Esmeralda** (accept **Agnès Guybertaut**)

Part 4: Quasimodo's guardian, a cruel archdeacon who falls in love with the street dancer?

ANSWER: Claude **Frollo** (accept **Dom Claude Frollo** or **Monseigneur Claude Frollo**)

Part 5: The captain of the King's Archers, with whom the street dancer falls in love?

ANSWER: Captain **Phoebus** de **Chateaupers** (accept either name)

Part 6: The poet to whom the street dancer is married?

ANSWER: **Pierre** Gringoire

Incan Empire

In the Incan Empire, who or what was the:

Part 1: European country that conquered the Incan Empire and Latin America?

ANSWER: **Spain**

Part 2: Explorer who conquered the Incans?

ANSWER: Francisco **Pizarro**

Part 3: Last Incan emperor who was captured by the explorer?

ANSWER: **Atahualpa**

Part 4: Ancient Incan city rediscovered by Hiram Bingham and written about by Pablo Neruda?

ANSWER: **Machu Picchu**

Part 5: Official language of the Incan Empire, which is not to be confused with the other Andean language Aymara?

ANSWER: **Quechua**

Part 6: 1532 battle that captured the last Incan emperor?

ANSWER: Battle of **Cajamarca**

(Tossup 6) **Relativistic beta is proportional to this vector quantity for an object. This quantity is crossed with the magnetic field in the formula for the Lorentz force. This quantity is constant in all inertial reference frames. An object's kinetic energy (*) equals half the mass times the square of this quantity. To leave orbit, objects must reach the "escape" form of, ftp, what quantity measured in meters per second?**

ANSWER: **velocity** (prompt on speed)

(Bonus 6) These molecules can be made in "step-growth" and "chain-growth" reactions, fte.

[10] Name these long molecules made of repeating identical subunits called monomers.

ANSWER: **polymers** (accept **polymerization**)

[10] One type of chain-growth polymerization extends a chain using these high-energy molecules that contain unpaired electrons.

ANSWER: free **radicals**

[10] A type of polymerization reaction called ROMP is driven by the opening of these structures in compounds. Steroids such as cholesterol have four "fused" examples of these structures.

ANSWER: **rings** (accept **cycles**; accept **ring** systems; accept **cyclic**)

(Tossup 7) **The Spanish Bodegon is an example of these types of paintings. In the Netherlands, banquet and breakfast scenes were shown in these paintings, and they often included an object such as a skull that symbolizes the brevity of life.** (*) Paul Cezanne's several examples of these paintings show baskets of apples. Flowers and food are popular subjects in, for ten points, what paintings of inanimate objects with a two-word name?

Answer: **still life**

(Bonus 7) A group of people stand before a firing squad in this artist's painting, which protested the French occupation of his home country. For ten points each,

Part 1: Name this artist who also produced clothed and nude versions of a low-class Maja woman whose exact identity remains unknown to this day.

ANSWER: Francisco de **Goya**

Part 2: *Two Old Men Eating Soup* and *Saturn Devouring His Children* are among this set of fourteen bleak murals by Goya that he created for his personal residence, the Quinta del Sordo or House of the Deaf Man.

ANSWER: **Black Paintings**

Goya was from this European country. The earlier painter El Greco primarily worked in this non-Greek country.

ANSWER: **Spain**

(Tossup 8) **The Jain version of this holiday celebrates Mahavira's achievement of Nirvana and his passing of power to Gautama Swami. Oil lamps named diyas are often hung around the house in preparation for this holiday, and sometimes adherents worship Lakshmi in traditional ceremonies to bring good luck to a family.** (*) In Gujarat and some other more isolated communities, this holiday represents the beginning of a New Year. For ten points, name this "Festival of Lights," a Hindu holiday celebrated in fall.

ANSWER: **Diwali** [Accept **Divali** or **Deepavali**]

(Bonus 8) This speech introduces the phrase "salt of the Earth". For ten points each,

[10] Name this speech that contains the Lord's Prayer. This lengthy speech given by Jesus Christ is the first of the Five Discourses of Matthew.

ANSWER: **Sermon on the Mount**

[10] The Sermon on the Mount was delivered near the Sea of Galilee, a lake in this modern-day country. This country contains Tel Aviv, and it disputes Jerusalem with Palestine.

ANSWER: **Israel**

[10] The Sermon on the Mount contains this set of eight blessings. One of these blessings reads "Blessed are the meek, for they will inherit the Earth".

ANSWER: the **Beatitudes**

(Tossup 9) **One member of this kingdom that infects rye plants produces alkaloids that can induce severe hallucinations in humans if eaten. Lichens are composed of a cyanobacteria or algae and a member of this (*) kingdom. Puffballs are a member of this kingdom that produce spores to reproduce.** For ten points, name this eukaryotic kingdom that includes yeast, mold, and mushrooms.

ANSWER: **fungi** (or **fungus**)

(Bonus 9) Flippases, floppases, and scramblases switch around molecules within this structure, fte. [10] Name this semi-permeable organelle that surrounds the cytoplasm of a cell.

ANSWER: **cell membrane** (accept **plasma membrane**; prompt on membrane)

[10] The cell membrane is made of a bilayer of these amphipathic molecules which contain two fatty acid "tails" with a phosphate and glycerol "head" group.

ANSWER: **phospholipids** (prompt on lipids)

[10] The long fatty acid "tails" of phospholipids have this property, which is why they orient towards the inside of the membrane to avoid the water-filled external environment.

ANSWER: **hydrophobicity** (accept **lipophilicity**; prompt on nonpolar; prompt on organic)

(Tossup 10) **Protests against this country's prime minister Thaksin Shinawatra resulted in the People's Alliance for Democracy seizing the Suvarnabhumi airport. The Phibun led government of this country surrendered to Japan in only 5 hours during World War II.** (*) This country is the only southeast Asian nation to never fall under European colonization. For ten points, name this country ruled by the Chakri dynasty, which was formerly known as Siam.

ANSWER: **Thailand** (or Siam before read)

(Bonus 10) This event forced Robert Peel to repeal the Corn Laws. For ten points each:

[10] Name this event in which a namesake crop's failure caused widespread hunger.

ANSWER: **Irish Potato Famine**

[10] The Corn Laws imposed this kind of tax on imported grain. In the US, a controversy over one of these taxes caused the Nullification Crisis.

ANSWER: **Tariff**

[10] Robert Peel went against most of this party, his own party, when he repealed the Corn Laws. Later Prime Ministers from this party have included John Major and David Cameron.

ANSWER: **Conservative** Party (accept **Tory** or **Tories**)

Tiebreaker

(Tossup 11) **This philosopher proposed a thought experiment involving a man observing a ball of wax in a work arguing for the mind and body being separate. This philosopher imagined an "evil demon" deceiving him in a work that** (*) proposes his namesake "dualism," in which he doubts almost everything, leading to his most famous quote. For ten points, *Discourse on Method* is the source of which French philosopher's quote "I think, therefore I am?"

ANSWER: Rene **Descartes**

(Bonus 11) Some people have taken to turning these locales into pizza ovens, restaurants or shelters for pets. For ten points each;

[10] Name these hemispheric fixtures of which 700,000 were built during the communist dictatorship of Enver Hoxha. Hitler committed suicide in a different location of this type in Berlin.

ANSWER: **Bunkers**

[10] Hoxha built those bunkers in this Balkan nation, with many still found in the streets of Durres and Tirana.

ANSWER: Republic of **Albania**

[10] In 2020, Albania and Greece solved a long standing maritime dispute in this sea after an October summit.

ANSWER: **Ionian** Sea [prompt on "Mediterranean Sea"]

