

## CEESA Bowl Round 2

### First Half

(Tossup 1) **This organ contains a series of electroconductive cells that form the Purkinje fibers and Bachmann's bundle. This organ's function is measured with QRS complexes. This organ's rate of contraction is controlled by the Bundle of His. This organ contains the chordae tendineae, as well as the (\*) tricuspid and bicuspid valves. This organ is divided into the left and right atrium and ventricles. For ten points, name this organ that pumps blood through the body.**

ANSWER: **heart**

(Bonus 1) This protein is produced in beta cells within the Islets of Langerhans. For ten points each,

[10] Name this hormone produced in the pancreas that promotes the absorption of blood sugar.

ANSWER: **insulin**

[10] Patients with the "Type 1" or "juvenile" form of this disease cannot produce insulin, which is why they may need to carefully monitor their blood sugar.

ANSWER: **diabetes** mellitus

[10] Sugar absorbed from the blood is converted into this multibranched polysaccharide form, which is the primary molecule for glucose storage in the body.

ANSWER: **glycogen** (do not accept or prompt on "glucagon")

(Tossup 2) **In the book *Collapse*, Jared Diamond said that this place's civilization fell apart due to pre-European deforestation. This location was home to the Rongorongo script and the Bird Man cult. The supreme god of this location was named Makemake (mah-kay-mah-kay) and its native people are the (\*) Rapa Nui. Name this Polynesian island, a territory of Chile noted for its massive stone heads, called Moai.**

ANSWER: **Easter Island** (accept **Rapa Nui** before read)

(Bonus 2) Yu Dongyue and other demonstrators threw eggs at a portrait in this location. For ten points each:

[10] Name this site of the "Gate of Heavenly Peace," a plaza flanked by animal columns known as huabiao.

ANSWER: **Tiananmen** Square

[10] Tiananmen Square is in this capital city of the People's Republic of China.

ANSWER: **Beijing**

[10] The portrait of Mao Zedong on display in Tiananmen Square is changed every year on this national of China, commemorating the retreat of the Kuomintang to Taiwan.

ANSWER: **National Day**

(Tossup 3) **A book by this author apologizes for its lack of a nineteenth chapter, which would have been about Miss Zerves. A novel by this author presents the back story of the outlaw (\*)** Kate Barlow, whose African-American lover was murdered and who then refused to disclose the location of a treasure buried near Camp Green Lake. For ten points, name this young adult author of the Wayside School series and the novel *Holes*.

ANSWER: Louis **Sacher**

(Bonus 3) This literary character bunks with the harpooner Queequeg, and floats to safety on Queequeg's coffin after his ship is destroyed. For ten points each,

[10] Name this fictional sailor who asks the reader to "call me [this name]" before boarding the Pequod to help Captain Ahab on a mad quest for revenge.

ANSWER: **Ishmael**

[10] Ishmael helps Captain Ahab on the title white whale in this novel.

ANSWER: **Moby-Dick**; or, **The Whale**

[10] Moby-Dick is by this American author, who also wrote Billy Budd.

ANSWER: Herman **Melville**

(Tossup 4) **In this country, the People Power Revolution succeeded in removing Ferdinand Marcos from power in favor of Corazon Aquino. Manuel Quezon led this country from exile after fleeing from Japanese aggression during World War II. The first president of this country, Emilio Aguinaldo, led resistance against colonizing forces from (\*)** Spain and the United States. For ten points, name this Southeast Asian nation which is led from Manila.

ANSWER: **Philippines**

(Bonus 4) These warriors served their lords in medieval Japan. For ten points each:

[10] Name these sword-bearing warriors, who were executed with honor through seppuku, or ritual self disembowelment.

ANSWER: **samurai** (accept **bushi**)

[10] Samurai utilized these swords upon fighting. A typical samurai carried a long "uchi" one, along with a short wakizashi.

ANSWER: **katana** (accept **uchigatana**)

[10] People of this occupation used a shorter katana than a samurai. These spies also used a variety of other weapons, like kunai and shuriken.

ANSWER: **ninja** (accept **shinobi**)

(Tossup 5) **Integral curves are tangent to "fields" of these values that represent solutions to some differential equations. This value for a tangent line is found using a derivative. To find this value for a perpendicular line, (\*)** one takes the negative reciprocal of the first value; thus the product of these values is negative one. For 10 points, name this steepness value that is the m in the equation y equals mx plus b and is calculated using rise over run.

ANSWER: **slope**

(Bonus 5) For 10 points each, name some quadrilaterals:

[10] This type of quadrilateral has four sides of the same length and four angles all measuring 90 degrees.

ANSWER: **square**

[10] This group of quadrilaterals is used in a "rule" that is more accurate in approximating integrals than Riemann sums. They're not triangles, but these shapes can be "isosceles."

ANSWER: **trapezoids** [or **trapezium**]

Part 3: Brahmagupta's formula uses the semiperimeter to calculate the area of this class of quadrilaterals. Kites are these kinds of quadrilaterals only if they have two right angles.

[10] cyclic **quadrilaterals** [accept answers indicating they can be inscribed in a circle]

## Category Rounds

The categories are...

1. Chemical Elements
2. Huckleberry Finn
3. The Industrial Revolution

## Chemical Elements

Name the...

Part 1: Scientist who devised the first periodic table and names element 101.

Answer: Dmitri **Mendeleev**

Part 2: Lightest element, found on the top left of the periodic table.

Answer: **hydrogen** [or **H**]

Part 3: Group of unreactive elements with a full valence shell on the right of the periodic table.

Answer: **noble gases** [or group **8A** or group **18**]

Part 4: Group of elements that has a partially filled d-orbital, whose lightest member is scandium.

Answer: **transition metals**

Part 5: Element that lies below lanthanum on the periodic table.

Answer: **actinium** [or **Ac**]

Part 6: Densest element, with a density of 22.59 grams per cubic centimeter.

Answer: **osmium** [or **Os**]

## Huckleberry Finn

In relation to the novel The Adventures of Huckleberry Finn, who is...

Part 1: The author of the book?

Answer: Mark **Twain** (accept Samuel Langhorne **Clemens**)

Part 2: The young friend Huck pretends to be late in the book and who titles another novel by the same author?

Answer: **Tom Sawyer** (accept either name; accept Thomas Sawyer)

Part 3: The escaped slave who rafts down the Mississippi River with Huck?

Answer: **Jim**

Part 4: The woman who cares for Huck with her sister, Miss Watson?

Answer: Widow **Douglas**

Part 5: The swindler who works with the "Dauphin?"

Answer: The **Duke** (accept **Duke of Bridgewater**; accept **Bilgewater**)

Part 6: The aunt of Huck's friend, who plans to adopt Huck with her husband, Silas?

Answer: **Sally** Phelps (prompt on "Phelps")

## The Industrial Revolution

Name the...

Part 1: country where Industrial Revolution first took off, partly due to the domestic peace after the Glorious Revolution

Answer: **England** [Accept **UK** or **Britain**]

Part 2: inventor of the efficient steam engine that names a modern unit of horsepower

Answer: James **Watt**

Part 3: people who opposed the mass job loss of skilled workers who would wander around destroying textile machinery

Answer: **Luddites**

Part 4: multi-spindle frame perfected by British inventor Richard Arkwright that partly takes its name from a common British first name

Answer: **Spinning Jenny** [Accept **Spinning Frame**]

Part 5: the Denis Diderot work that spread Industrial innovations in Britain to other parts of Europe

Answer: **Encyclopédie**

Part 6: Max Weber work that partly explored how one faith's morals may have contributed to the Industrial Revolution

Answer: **The *Protestant Ethic and the Spirit of Capitalism***

## Second Half

(Tossup 6) **This city was governed by the Great Rhetra which, according to legend, was orally shared by Lycurgus. Boys in this city were required to participate in the agoge (uh-GO-gay), a rigorous training program. (\*)** 300 warriors from this city under the leadership of Leonidas fought a massive Persian force at the Battle of Thermopylae. For ten points, name this militaristic Greek city-state, the rival of Athens.

ANSWER: **Sparta**

(Bonus 6) Answer these questions about Nazi Germany in the 20th century,

[10] Give this two-word name of a regime which was based on the fact that it supposedly succeeded two earlier empires.

ANSWER: **Third Reich**

[10] The Third Reich was led by this leader of the Nazi Party.

ANSWER: Adolf **Hitler**

[10] Hitler believed the Third Reich would last 1000 years. Within 2, how many years did it actually last?

ANSWER: **12** (accept **10-14**)

(Tossup 7) **Early Christians moved the beginning of this holiday a day back to coincide with the crucifixion of Jesus, which by John is said to have occurred on the 14th of Nisan. Traditionally, observants of this holiday do not eat (\*)** breads derived from Wheat, Rye or Barley, leading to the consumption of unleavened bread in dishes such as Gebrochts. This holiday derives its name from when YAHWEH ignored the homes of Israeli households with lamb's blood on their door while still targeting the Egyptian first-born boys during the Ten Plagues. For ten points, name this major Jewish holiday that begins with a namesake seder.

ANSWER: **Passover** [Accept Pesach]

(Bonus 7) The siblings Izanagi and Izanami are creator deities from this religion. For ten points each,

[10] Name this Asian religion that worships spirits called *kami*. This religion has no central authority, but its adherents share a focus on family shrines and ritual washing.

ANSWER: **Shintoism** (accept **kami-no-michi**)

[10] Shinto is from this island nation, where it is practiced in some form by about 80% of its inhabitants. Christians in this country were persecuted during its Tokugawa period.

ANSWER: **Japan** (accept **Nihon**, accept **Nippon**)

[10] The entrances to Shinto shrines are marked by these red gates, which are used to signify sacred spaces.

ANSWER: **torii**

(Tossup 8) "**Hanne's Spinning Song**" is part of a musical movement with this title; that movement is the last of a four-part work by Haydn based on a James Thomson poem. Tchaikovsky's first symphony is nicknamed for "**daydreams**" (\*) of this time period. Fruhlingstraum, or "*Dream of Spring*," is part of a Schubert lieder about a journey in this season. For 10 points, the last part of Vivaldi's The Four Seasons evokes what cold season?

ANSWER: **Winter**

(Bonus 8) This artist completed his triptychs The Descent from the Cross and The Elevation of the Cross in the early 17th Century. For ten points each,

[10] Name this Flemish artist who painted several versions of The Three Graces that depict his characteristic voluptuous nudes.

ANSWER: Peter Paul **Rubens**

[10] Rubens showed the main subject in a typical black hat and black coat, with a white ruff and a beard, in a 1639 painting of this type. This two-word hyphenated phrase describes any painting by an artist that depicts that same artist.

ANSWER: **self-portrait**

[10] Rubens's Descent and Elevation of the Cross were created for the cathedral of this Belgian city, where they reside to this day.

ANSWER: **Antwerp**

(Tossup 9) In the *Lokasenna*, this god kills Fimafeng before insulting various gods in a *flyting*. This god goes with Thor in disguise to recover Mjolnir from Thrym. Earthquakes are supposedly caused when this god's wife Sigyn empties the cup protecting him from dripping snake poison. This god is able to change his (\*) sex, allowing him to mother the eight-legged horse Sleipnir. This god will slay Heimdall at Ragnarok. This half-giant was chiefly responsible for Baldr's death. For ten points, name this Norse trickster god.

ANSWER: **Loki**

(Bonus 9) This hero was stuck in the underworld with his friend Pirithous until Heracles came to rescue him. For ten points each,

[10] Name this Greek hero who slew the Minotaur with the help of Ariadne.

ANSWER: **Theseus**

[10] One of Theseus' foes was this bandit, who used beds to stretch his victims to a certain height. This bandit would also cut off his victims' legs if they were too short.

ANSWER: **Procrustes**

[10] Theseus was also tasked with killing one of these animals from Crommyon. A king who ordered the capture of a different one of these animals hid in a bronze jar upon seeing it.

ANSWER: **sow** (accept boar, accept pig)



(Tossup 10) In this novel, a child is sent to work for Mr Sowerberry, who forces him to sleep in a coffin, and a conversation with Mr Brownlow under a bridge leads to Nancy's death at the hands of her boyfriend, Bill Sikes. This novel's protagonist joins (\*) Fagin's gang and helps the Artful Dodger pick pockets after being sent away from a workhouse for asking for more gruel. For ten points, name this Charles Dickens novel about a title orphan boy.

ANSWER: **Oliver Twist** (accept **Oliver Twist**; or, the **Parish Boy's Progress**)

(Bonus 10) This literary work, now usually published as its own book, is the third section of the extremely long novel *The Vicomte of Bragelonne: Ten Years Later*. For ten points each,

[10] Name this literary work in which the title man, Philippe, escapes from the Bastille and briefly replaces his brother, Louis XIV, as king of France.

ANSWER: **The Man in the Iron Mask** (accept **L'Homme au Masque de Fer**)

[10] *The Man in the Iron Mask* is part of a series of novels by Alexandre Dumas that tells the story of this group of fighters, made up of Athos, Porthos, and Aramis.

ANSWER: **The Three Musketeers** (**Les Trois Mousquetaires**)

[10] *The Three Musketeers* is the first of a series of Romances written by Dumas and collectively named for this character, who joins the musketeers on their adventures.

ANSWER: **D'Artagnan**

## Tiebreaker

(Tossup 11) In 1858, James Buchanan granted full amnesty to treasonous members of this religion with the condition that they accept federal authority. A militia composed of members of this religion and their Southern Paiute allies launched an attack on the Baker-Fancher wagon train in the Mountain Meadows Massacre. (\*) After their leader was killed by a mob in Carthage, Illinois, thousands of members of this religion, under the leadership of Brigham Young, fled to Utah. For ten points, name this religion founded by Joseph Smith.

Answer: **Mormonism** (accept Latter-Day Saints or LDS)

(Bonus 11) The Mogao Caves held the Irk Bitig text, a text holy to a faith named for this god. For ten points each:

[10] Name this sky god which names the Turkic faith once worshipped by much of Central Asia.

ANSWER: **Tengri**

[10] This word, taken from the word for holy seers of Tengri of Siberia, now means practitioners that can make contact with the spiritual planes in various cultures.

ANSWER: **Shamans**

[10] This Central Asian nation adapted the motif of the "Endless Sky of Tengri" to its flag after Nursultan Nazarbayev abandoned the "Hammer and Sickle" design of the USSR.

ANSWER: Republic of **Kazakhstan**