

## Round 8

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### Tossups

(1) A piece in this musical collection contains a tune that became *Thaxted*, a hymn also called “I Vow to Thee, My Country.” A posthumous addition to this group of pieces is named for “the Renewer,” and was performed after a movement named for “the (\*) Mystic” before its namesake was removed from this suite’s title group. Other movements in this suite are named for a “Bringer of Jollity” and a “Bringer of War.” For ten points, name this suite by Gustav Holst with movements like “Jupiter,” “Neptune,” and “Mars.”

ANSWER: The Planets (accept Opus 32; NOTE: The added and removed movement was “Pluto, the Renewer.” It and other “Pluto” movements were added to performances between when Pluto was discovered shortly after Holst’s death and when it lost its “planet” status)

(2) During this president’s administration, stock speculator Joseph Kennedy was named head of the SEC. A five-to-four decision upheld this president’s National Labor Relations Board, but when other programs were blocked, this man considered (\*) packing the court. The Works Progress Administration, the Tennessee Valley Authority, and the creation of Social Security were among the planks of the New Deal platform of, for ten points, what US president who served four terms beginning in the Great Depression?

ANSWER: Franklin Delano Roosevelt (accept FDR; prompt on “Roosevelt”)

(3) The Fujiwhara Effect describes the interaction between two of these systems. The ROCI [“rocky”], or “radius of outermost closed isobar” describes the size of these systems in degrees of latitude. The “stadium effect” creates an inverted-dome (\*) wall around the center of these systems. The rotation of these storms is caused by the Coriolis effect, and their wind speed is ranked on the Saffir-Simpson scale up to Category 5. For ten points, name these large storms that rotate around a calm, central eye.

ANSWER: hurricanes (accept tropical cyclones; accept typhoons)

(4) This author created Jim O’Connor, a “gentleman caller” who accidentally breaks Laura Wingfield’s figurine. In a play by this author, Mae and Gooper suck up to Big Daddy in order to get an inheritance, to the outrage of (\*) Brick and Maggie Pollitt. In another play by this author, Stanley Kowalski reconciles with his wife, Stella, after assaulting her destitute sister, Blanche DuBois. For ten points, name this American playwright of *The Glass Menagerie*, *Cat on a Hot Tin Roof* and *A Streetcar Named Desire*.

ANSWER: Tennessee Williams (accept Thomas Lanier Williams III [the third])

(5) **This mythical object is tended by Ur-thr, Ver-thandi, and Skuld. Dá-inn, Dva-linn, Dun-eyrr and Dura-thrór feed on this object, which is home to the dragon Nithogg and the (\*) squirrel Ratatoskr.** The base of this object extends to Helheim and Jötunnheim. This object was nicknamed a “gallows” after Odin hung on it for nine days and nights. For ten points, name this ash tree that extends through the nine realms of Norse myth.

ANSWER: Yggdrasil [IG-drah-sill] (accept World Tree; prompt on “tree” or “ash tree” until “ash” is read)

(6) **This thinker sought to “overthrow” the “false principles and foundation of Sir Robert Filmer” in his *Second Treatise of Civil Government*. This author of *An (\*) Essay Concerning Human Understanding* advocated a natural right to “life, liberty, and property,” inspiring the US Declaration of Independence.** For ten points, name this British philosopher who argued that all minds are “blank slates,” or “tabula rasa,” at birth.

ANSWER: John Locke

(7) **This quantity was proposed by Soren Sorenson, and its value for a buffer can be estimated by the Henderson-Hasselbach equation. This quantity can be detected by color changes in (\*) phenolphthalein** [fee-nohf-thay-leen] or other indicators. This measure of hydrogen ion concentration is described by a logarithmic scale ranging from zero to fourteen, where seven is neutral. For ten points, name this quantity that describes the acidity or basicity of a substance.

ANSWER: pH [P-H] (prompt on “acidity” or “basicity” before “acidity” is read)

(8) **According to sede-vacant-ists, this position has been improperly held since the mid-twentieth century. The corpse of Formosus, a holder of this position, was put on trial; after the body was found guilty, it was thrown into the (\*) Tiber River, where it washed ashore and supposedly started performing miracles.** Legend holds that “John Anglicus of Mainz” held this post despite being a woman. The College of Cardinals elects, for ten points, what position, the head of the Roman Catholic Church?

ANSWER: popes (accept papas; accept Bishop of Rome before it is read; prompt on “bishop” before it is read)

(9) **Lagrange proved that doing this to four square numbers can give any natural number. The successor function applies this operation to a natural number and one. Performing this operation on the terms of an infinite sequence gives a (\*) series.** A capital sigma is used in a simplifying notation for this operation; for example, “sigma  $n$  from 1 to 10” gives 55. For ten points, name this mathematical operation that, when repeated, leads to multiplication.

ANSWER: addition (accept summation; accept word forms like adding or summing)

(10) **In this play, the protagonist’s brother, Gayev, fails to save his sister’s home. Varya’s assumed fiancé never actually proposes to her in this play, whose protagonist mourns her dead son, Grisha, when she sees Anya’s lover, the “eternal student” Trofimov. In this play, Firs lies down to die in a boarded-up house purchased by (\*) Lopakhin as the sound of axes is heard on Madame Ranev-skaya’s estate.** For ten points, name this Anton Chekhov play that ends with the sound of the title fruit grove being cut down.

ANSWER: The Cherry Orchard (accept Vishneviy sad)

(11) **An interest in this musical genre was revived by a movement that included the works “Leave Her, Johnny” and “My Mother Told Me.” This genre’s revival increased interest in the Ngai Tahu community and a cappella group The Longest Johns. Scottish (\*)** TikToker Nathan Evans popularized a song in this genre that promises “one day when the tonguin’ is done / we’ll take our leave and go,” and anticipates someone who will “bring us sugar and tea and rum.” “Soon May the Wellerman Come” is one of, for ten points, what genre of ocean-themed work songs?

ANSWER: sea shanty (accept shanties; accept sea songs; accept whaling songs; accept Electro-Shanty; accept ShantyTok)

(12) **This architect proposed a nuclear-powered elevator system for a hypothetical, mile-high tower called the Illinois, and built a studio called Taliesin West in Arizona. This architect frequently used car-ports in his (\*)** Usonian style, and he focused on low, wide buildings in his Prairie School homes. This architect designed cantilevered balconies for the Kaufmann House, which sits over Bear Run, a creek in Pennsylvania. For ten points, name this American architect who created Fallingwater.

ANSWER: Frank Lloyd Wright (accept Frank Lincoln Wright)

(13) **This literary kingdom is the birthplace of Hwin and Bree, who are kidnapped and taken to this kingdom’s southern neighbor, Calomen; they help Shasta prevent the marriage of Rabadash and this kingdom’s Queen (\*)** Susan. In another novel set in this kingdom, Mr Tumnus helps Peter, Lucy, and the other Pevensie children become this kingdom’s rulers with the blessing of Aslan. For ten points, *The Horse and His Boy* takes place in what literary kingdom, the setting of CS Lewis’s *The Lion, the Witch, and the Wardrobe*?

ANSWER: Kingdom of Narnia (accept Narnian Empire; The Chronicles of Narnia)

(14) **A “pink” one of these buildings in Shiraz contains elaborately tiled muqarnas in its iwan entrances, and has beautifully-colored stained glass throughout its prayer halls. A “green” one of these buildings is named for the tiling in its mahfils, platforms built for (\*)** muezzins. Sultan Ahmed built a “blue” one of these that has gold-leafed stalactites in its mihrab and six blue-capped minarets. For ten points, name these religious buildings used for congregational prayer in Islam.

ANSWER: mosques (accept masjids or almasjid; accept jama masjids or Friday mosques; accept camii or camiler; accept Pink Mosque of Shiraz or Masjed-e Surati; accept Nasir al-Mulk Mosque or Masjed-e Nasir o-Molk; accept Green Mosque of Bursa or Yesil Camii; accept Blue Mosque; accept Sultan Ahmad Mosque or Sultan Ahmad Camii)

(15) **This politician was soundly defeated by Morgan Lewis in an attempt to become Governor of New York, an outcome he blamed on George Clinton. After finishing second in the election of (\*)** 1800, this man became Thomas Jefferson’s first vice president. This man challenged a former Secretary of the Treasury to a duel at Weehawken, New Jersey after being labeled a “dangerous man.” For ten points, name this American statesman who killed Alexander Hamilton in a duel.

ANSWER: Aaron Burr Jr.

(16) A “differential” system of these devices invented by Thomas Weston takes advantage of opposing torques on two of them. A system with constant acceleration is modeled by two masses connect to an ideal, frictionless one of these devices in an (\*) Atwood machine. The mechanical advantage of these devices is equal to the number of ropes supporting a load. A block-and-tackle system is composed of, for ten points, what simple machines made of a cable that feeds over a wheel and axle?

ANSWER: pulleys (prompt on “Atwood machine” before it is read; prompt on “block and tackle” before it is read)

(17) This state’s historical landmarks include Wheeler Air Field, where Phil Rasmussen took off wearing purple pajamas, and Hickam Air Force Base, which shares runways with Daniel Inouye [ee-NOH-ay] International Airport. In this state, the (\*) Navy maintains a facility on Ford Island, where the USS *Missouri* “watches over” the USS *Arizona* memorial. For ten points, name this fiftieth US state where the naval base at Pearl Harbor was built near Honolulu.

ANSWER: Hawaii

(18) In this novel, Aunt Ophelia learns compassion by tutoring Topsy with the encouragement of her cousin, Augustine, who rescues this novel’s title character from Mr Haley. After saving Eva (\*) St Clare from drowning, this novel’s title man is inspired by her kindness to forgive the overseers who beat him to death on the orders of the vicious slave-owner Simon Legree. For ten points, name this abolitionist novel by Harriet Beecher Stowe that drew readers’ sympathy to the title slave.

ANSWER: Uncle Tom’s Cabin; or, Life Among the Lowly

(19) This city’s men formed a council called the *boule* [boo-lay], whose makeup was adjusted by Solon. Cleisthenes [klay-iss-thuh-nee] reformed this city’s constitution in 508 BCE, and may have introduced the process of ostracism to this city. (\*) Draco created a strict law code for this city, where trials were held on the Areopagus, in the shadow of the Acropolis. For ten points, name this city, often considered the birthplace of democracy, which was briefly ruled by thirty tyrants after it was conquered by its ancient rival, Sparta.

ANSWER: Athens (accept Athenai)

(20) In this structure, lysozyme hydrolyzes the bond between NAM and NAG. Transport through this structure occurs in channels called plasmodesmata. Gram staining is used to determine the thickness of this structure’s (\*) peptidoglycan in bacteria. In fungi, this structure is made of chitin instead of cellulose, which is common in this structure in plants. For ten points, name this protective cellular structure that surrounds the cell membrane.

ANSWER: cell wall