

2022 ACF Fall

Tiebreakers/Replacements

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Tossups

DO NOT READ TO TAMU A

This character steals the necklace from the Affair of the Diamond Necklace from his employer, who is trying to save Marie Antoinette's life, in John Corigliano's opera *The Ghosts of Versailles*. This character opens an opera by measuring dimensions for a bed before singing "Se vuol ballare." This character teases Cherubino ("care-oo-BEE-noh") after he is forced to enlist in the army in "Non più andrai." This character created by Pierre Beaumarchais claims that "of all the professions that can be mentioned," his job as servant to Count Almaviva is the best, in the aria "Largo al factotum." For 10 points, name this character who names Rossini's *The Barber of Seville* and is depicted by Mozart in an opera titled for his marriage.

ANSWER: **Figaro** [accept *The Marriage of Figaro* or *Le nozze di Figaro*; prompt on *The Barber of Seville* or *Il barbiere di Siviglia*]

<Other Fine Arts>

DO NOT READ TO MIT A

A series of letters sent by a person with this surname to Thomas Whately were acquired by Ben Franklin and later leaked. A religious activist with this surname who criticized the covenant of works later died during a Siwanoy raid in New Netherland. A mob led by Ebenezer MacIntosh ransacked a mansion owned by a man with this surname in the aftermath of the Stamp Act. A woman with this surname was convicted for "traducing the ministers" in a trial presided over by John Winthrop as part of the Antinomian controversy. For 10 points, give this surname shared by Thomas, a colonial governor of Massachusetts, and Anne, an early settler of Rhode Island who was exiled from Boston.

ANSWER: **Hutchinson** [accept Anne **Hutchinson** or Anne **Marbury**; accept Thomas **Hutchinson**]

<American History>

CAN BE READ TO ANY TEAM

In this novel, a lagoon is first described as a "sleeping leviathan." At the end of this novel, a character weeps for the "end of innocence." A character with a mulberry-colored birthmark disappears in this novel while a fire is being set. After the body of a pilot is found in this novel, Sam and Eric take it as evidence that the "beast" is real. A system of government in this novel that is established after a character finds a conch is undermined by a group of boys led by Jack, who kill Piggy. For 10 points, name this novel about British schoolchildren who are stranded on a deserted island, written by William Golding.

ANSWER: **Lord of the Flies**

<British Literature>

CAN BE READ TO ANY TEAM

A portion of this state's coast that is marketed as the "Quiet Resorts" includes Bethany Beach and Fenwick Island. This state's northern border is an arc of the Twelve-Mile Circle, which is centered in its town of New Castle. It's not New Jersey, but this state's flagship university is in its city of Newark ("NEW-ark"). This state lies directly east of the vertical portion of the Mason-Dixon line. This state's three counties are the fewest of any state. This is the first state in the portmanteau name of a "Peninsula" made up of parts of three states on the Mid-Atlantic coast. For 10 points, name this state whose capital is Dover.

ANSWER: **Delaware** [or **DE**] (The peninsula is the Delmarva Peninsula.)

<Geography>

CAN BE READ TO ANY TEAM

Materials for which velocity is dependent on this property can be used to construct the fast and slow axes of devices that alter this property known as waveplates. Devices named after this property are governed by a law that multiplies input intensity by the square of the cosine of this property's namesake angle. This property is perfectly filtered at an angle equal to the arctangent of two indices of refraction, known as Brewster's angle. When they are out of phase, two light rays with the "linear" form of this phenomenon can combine to produce its "circular" form. For 10 points, name this property of light in which its electric field oscillates in a certain direction.

ANSWER: **polarization** [accept word forms like **polarized**; accept linear **polarization** or circular **polarization**; accept **polarization** angle]

<Physics>

CAN BE READ TO ANY TEAM

Something that is made of this substance titles a 2013 song that asks a listener to "lead me where my trust is without borders" created by Hillsong United. This substance is typically distributed with an aspergillum. A eunuch who was reading Isaiah noted, "Look! Here is" this substance before a man was transported to Azotus. A Samaritan woman was offered a "living" form of this substance in the Gospel of John. While another character was interacting with this substance, Jesus said, "You of little faith" and calmed it. At a wedding at Cana, Jesus transformed this substance into wine. For 10 points, Christian baptisms typically use what substance found in the Jordan River?

ANSWER: **water** [or **H₂O**; accept holy **water**; accept living **water**; accept "**Oceans** (Where Feet May Fail)"]

<Religion>

Bonuses

DO NOT READ TO CWRU C

Answer the following about notable queer individuals in Roman history, For 10 points each.

[10h] This teenage emperor roamed the streets calling for doctors to turn him into a girl and lavished gifts on male lovers. This Severan Dynasty emperor derives his nickname from a Syrian sun god whose cult he made official.

ANSWER: **Elagabalus** [or **Heliogabalus**; accept **Marcus Aurelius Antoninus**; reject “Marcus Aurelius” or “Antoninus” or “Antoninus Pius”]

[10m] This successor of Trajan commissioned thousands of statues of his lover Antinous and proclaimed him to be a god. A defensive structure made by this emperor was superseded by one further north named for Antoninus Pius.

ANSWER: **Hadrian** [or Caesar Traianus **Hadrianus**; reject “Trajan” or “Caesar”]

[10e] This leader was nicknamed the “Queen of Bithynia” after rumors that he was in a relationship with Nicomedes IV, the King of Bithynia. This leader defeated his rival Pompey the Great after winning the Gallic Wars.

ANSWER: **Julius Caesar** [or Gaius **Julius Caesar** or Caius **Julius Caesar**; prompt on **Caesar**]

<Other History>

DO NOT READ TO VIRGINIA TECH A

This man was described as “the most splendid fellow in the whole of ancient history” by Karl Marx, and Voltaire said that the war he began was “the only just war in history.” For 10 points each:

[10m] Name this gladiator who led a failed slave revolt against Rome in the Third Servile War, which lasted from 73 to 71 BCE. Survivors of his revolt were crucified on the Appian Way.

ANSWER: **Spartacus** [or **Spártakos**]

[10e] When the Romans besieged Spartacus’s camp on this mountain, his army used vines to rappel down it and attack the Romans from their rear. This volcano erupted in 79 CE, burying Pompeii and Herculaneum.

ANSWER: Mount **Yesuvius** [or **Yesuvio**]

[10h] Spartacus paid some of these people to take his armies to Sicily, but they betrayed him. Julius Caesar was captured and ransomed by these people, and the *Lex Gabinia* let Pompey use special powers to finally defeat them.

ANSWER: Cilician **pirates** [or **sea raiders**; prompt on **sailors** or **seafarers** or **seamen** or **mariners**; prompt on **outlaws** or **mercenaries** or **criminals** or **raiders** or similar]

<Other History>

CAN BE READ TO ANY TEAM

During a play on this TV show, a homoerotic performance of “Holding Out for a Hero” uses lockers and exercise equipment as props. For 10 points each:

[10m] Name this HBO show in which Lexi’s play “Our Life” is interrupted by her sister Cassie. This show portrays the on-off relationship between Jules and Rue, who relapses after Jules leaves on a train at the end of season 1.

ANSWER: **Euphoria**

[10h] In *Euphoria*, this actor portrays football player Nate Jacobs, who was the target of the “Holding Out for a Hero” scene. In *The Kissing Booth*, this actor plays Elle’s boyfriend Noah Flynn.

ANSWER: Jacob **Elordi**

[10e] *Euphoria*’s main character, Rue, is played by this actress who usually goes by one name. This actress played MJ in *Spider-Man: Homecoming* and Chani in *Dune* alongside her boyfriend, Tom Holland.

ANSWER: **Zendaya** [or Zendaya Maree Stoermer **Coleman**]

<Pop Culture>

CAN BE READ TO ANY TEAM

These structures are treated as stationary in the Born–Oppenheimer approximation. For 10 points each:

[10h] Name these structures described by Maria Goeppert Mayer’s “shell model,” which she based on their unusual stability at “magic numbers.”

ANSWER: atomic **nuclei** [or atomic **nucleus**; accept **nuclear** shell model]

[10m] The presence of an atomic nucleus was confirmed by their deflection of these particles in the gold foil experiment. These particles are emitted in the least energetic form of radioactive decay.

ANSWER: **alpha** particles [or **helium-4 nuclei** or **helium-4 nucleus**; accept **alpha** decay; reject “helium” or “helium-3”]

[10e] An atomic nucleus is composed of protons along with these particles. The number of these particles in an atom distinguishes an element’s isotopes.

ANSWER: **neutrons**

<Chemistry>

CAN BE READ TO ANY TEAM

Answer the following about First Amendment cases that involved students, for 10 points each.

[10m] A 1969 case in this state that arose from students wearing black antiwar armbands created the substantial disruption test for whether schools could censor free speech.

ANSWER: **Iowa** [or **IA**] (The case is *Tinker v. Des Moines*.)

[10e] The *Newdow* case concerned whether this two-word phrase in the Pledge of Allegiance violated the Establishment Clause, since it refers to a specific Christian figure.

ANSWER: **under God**

[10h] *Wisconsin v. Yoder* held that this group’s freedom of religion outweighed the state’s compulsory education. This Anabaptist group split into “Beachy,” “Old,” and “New Order” subgroups in the 20th century.

ANSWER: **Amish** [or **Pennsylvania Dutch** or **Pennsylvania Germans**; accept Beachy **Amish** or Old Order **Amish** or New Order **Amish**; prompt on Anabaptists or Mennonites]

<American History>

CAN BE READ TO ANY TEAM

Envelope generators are common modules in a form of this instrument. For 10 points each:

[10m] Name this electronic instrument whose early examples include the RCA Mark II. Robert Moog (“mohg”) invented the first commercial variant of this instrument.

ANSWER: **synthesizer** [accept Moog **synthesizer**]

[10h] This musician helped develop the Moog synthesizer and popularized it with her Grammy-winning album *Switched-On Bach*. This musician composed the soundtrack to *Tron* three years after coming out as transgender.

ANSWER: Wendy **Carlos**

[10e] The Moog synthesizer is prominently used in *Abbey Road*, an album by this rock band whose member George Harrison has earlier used the Moog on his album *Electronic Sound*.

ANSWER: The **Beatles**

<Other Fine Arts>

CAN BE READ TO ANY TEAM

This culture was conquered by the Hyksos (“HICK-sohs”) from Western Asia, who set up a capital at Avaris. For 10 points each:

[10e] Name this culture that built pyramids along the Nile River.

ANSWER: ancient **Egyptians** [accept **km.t** or **Kemet**]

[10m] By defeating the Hyksos, Kamose and Ahmose began the New Kingdom, which included this ruler who abandoned the Egyptian pantheon in favor of the god of the solar disc. He is often called the first monotheist.

ANSWER: **Akhenaten** [accept **Amenhotep IV** or **Amenophis IV** or **jmn-htp IV**]

[10h] The Hyksos invasion occurred during the second of these periods in Egyptian history that separated the kingdoms. The first of them occurred after the extremely long reign of Pepi II caused a succession crisis.

ANSWER: **Intermediate** Periods [accept First **Intermediate** Period or Second **Intermediate** Period]

<Other History>