

2020 Matt Cvijanovich Memorial Tournament:

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Tiebreakers

Note to players: two answers required.

1. A lighthouse on Machias Seal Island was placed in an attempt to solve a border dispute between these two countries. At Churubusco, one can only travel south across the border between these two countries. The International Boundary Commission maintains a border between these two countries along the (*) 49th Parallel. The Ambassador and Rainbow Bridges connect these two countries. The longest international border in the world is shared by, for 10 points, what two North American countries with a border separating Michigan and Ontario?

ANSWER: The United States of America and Canada [both underlined parts required, prompt on partial answers; accept USA for United States of America; prompt on America for the United States of America] <Ganon Evans>/<ed. AD>

2. In this country, civet cats digest seeds for Kopi Luwak, the most expensive coffee in the world. In 2019, this country announced that it would move its capital to East Kalimantan by 2024. This country's possessions in the Lesser Sunda chain include Komodo Island. The volcano (*) Krakatoa lies in the Sundar Strait, which separates the provinces of Lampung and Banten. This country is East Timor's only neighbor, and it shares Borneo with Malaysia and Brunei. For 10 points, name this archipelagic Asian country whose islands include Sumatra, Bali, and Java.

ANSWER: Indonesia <Ganon Evans>/<ed. AD>

3. The "Last" of this poem's title group appear "drilled on an empty stomach" in a Rudyard Kipling response to this poem. This poem's speaker asks "Was there a man dismayed?" before stating "Someone had blundered." This poem's title group refuses to "reason why, their but to do and die" as they ride "into (*) the jaws of Death, into the mouth of hell." The Battle of Balaclava inspired this poem, which opens "half a league, half a league, half a league onward." For 10 points, name this poem about the "six hundred" riding "into the valley of death" by Alfred, Lord Tennyson.

ANSWER: "The Charge of the Light Brigade" [prompt on the "The Last of the Light Brigade" with "What was the original poem?"] <Ganon Evans>/<ed. WG>

4. In *Baker v. Carr*, the Supreme Court ruled that cases involving these areas were hearable in federal courts. Packing and cracking are two strategies that can be employed when creating these areas. One of these areas in North Carolina was ruled (*) unconstitutional because it was created using racial data. Compactness and contiguity are often requirements for these areas. Judge Elbridge Gerry drew one of these areas in the shape of a salamander, leading to the term gerrymandering. For 10 points, name these regions containing roughly equal populations from which representatives are selected.
ANSWER: electoral district [accept voting district, legislative district, or congressional district; prompt on district; prompt on ward; prompt on constituency] <Lalit Maharjan><ed. AD>

5. A Scottish Presbyterian gives the narrator of a short story by this author a book titled “Holy Writ.” This author of “The Book of Sand” wrote about a librarian cult named the Purifiers, who search for the Crimson Hexagon. In another short story by this author, a German (*) spy murders Dr. Albert to relay the location of a British artillery battery; that character, Yu Tsun, encounters an indecipherable book he nicknamed “the labyrinth.” For 10 points, name this Argentinian author whose collection *Ficciones* includes “The Library of Babel” and “The Garden of Forking Paths.”
ANSWER: Jorge Luis Borges <Ganon Evans>/<ed. WG>

Description Acceptable.

6. One attempted performance of this action involved one of Charles Manson’s followers named Lynette Fromme at the California State Capitol in 1975. A 1993 gun-control bill was named after James Brady, who was wounded during an attempt to perform this action, after which Alexander Haig claimed (*) “I am in control here.” After John Flammah Schrank tried to perform this action, his target opened a campaign speech by noting “it takes more than that to kill a Bull Moose.” A 1981 attempt of this action was done to impress Jodie Foster by John Hinckley Jr. For 10 points, many failed attempts have occurred of what action targeting people like Gerald Ford or Ronald Reagan?
ANSWER: assassinating the President of the United States [both underlined parts required; accept descriptions indicating killing or shooting the President; prompt on just assassinating with “Assassinating who?;” accept specific Presidents such as assassinating Ford, assassinating Reagan, or assassinating Roosevelt] <Submitted by Conor Thompson/Ed. GE>

7. In this country, troops ordered to kill “anything that moves” perpetrated the Wola Massacre. Jurgen Stroop’s SS put down an uprising in this country led by the ZOB. The Molotov-Ribbentrop Pact partitioned this country in half. Survivors of the largest (*) Jewish ghetto uprising in this country were sent to Treblinka, and other concentration camps in this country included Birkenau and Auschwitz. The beginning of the European Theater of World II is marked by the 1939 German Invasion of, for 10 points, what country which was home to the Warsaw Ghetto?
ANSWER: Poland [or Polska] <Lalit Maharjan>/<ed. GE>

8. In this piece, the glockenspiel leads a transition from 2/4 time to a swinging 3/4 time motif. The hymn tune “Thaxted” originally appeared in this piece, but was later adapted by Cecil Spring Rice for a famous patriotic anthem. This piece has a fade out ending as doors close on rooms holding (*) women’s choruses. John Williams’ soundtrack for Star Wars was inspired by a movement in this piece which features a *col legno* string ostinato in 5/4 time. Movements subtitled “The Bringer of Jollity” and “The Bringer of War” appear in, for 10 points, what solar system-inspired orchestral suite by Gustav Holst?

ANSWER: The **Planets**, Op. 32 [prompt on specific movements such as “Mars, the Bringer of War,” “Jupiter, the Bringer of Jollity,” or “Neptune, the Mystic” before mention; accept “Jupiter, the Bringer of Jollity” before “first fade”] <Ganon Evans>/<ed. KP>

9. Two million dark chocolate M&M’s were offered for the return of this painting, which was stolen in 1994. Sue Prideaux argued that this painting represents its artist’s suicidal thoughts, as its depicted location was near a slaughterhouse and an asylum containing the artist’s sister Laura. Two men walk away from this painting’s central figure, who stands beneath a (*) blood-red sky inspired by the eruption of Krakatoa. From *The Frieze of Life*, the central figure clutches his head and performs the title sound in, for 10 points, what Edvard Munch painting?

ANSWER: *The **Scream*** [or **Skrik**; accept *The **Scream of Nature***] <Ganon Evans>/<ed. EC>

11. This man published his study of Joseph Black’s theory of “fixed air” in his book *Opuscules Physiques et Chimiques*. With Laplace, this man synthesized water by burning jets of hydrogen and oxygen in a bell jar. This man wrote the *Elementary Treatise on Chemistry* and he used the discoveries of (*) John Priestley to disprove the phlogiston theory of combustion. This man’s observations led to the law of conservation of mass. For 10 points, name this pioneer of stoichiometry, a scientist guillotined during the French Revolution who was considered the father of modern chemistry.

ANSWER: Antoine-Laurent de **Lavoisier** <Stefan Calin>/<ed. SC>

12. A tree outside this location with golden red leaves is considered the “most beautiful,” while the antlers of the stag Eikthyrnir provide this location with water. King Gylfi, travelling under the name Gangleri, is told that despite the large amount of people in this location, it won’t be enough when “the (*) wolf comes.” The goat Heidrun and the boar Saehrimnir continuously feed the people of this location, and the einherjar are healed up after being brought to this location by valkyries. For 10 points, name this hall of Asgard where fallen warriors reside.

ANSWER: **Valhalla** [prompt on Asgard] <Lalit Maharjan>/<ed. EC>

13. This school of thought influenced Viktor Frankl’s idea of logotherapy. A thinker from this school of thought wrote the first piece of “mirror of the prince” literature titled “On Mercy.” The founder of this school of thought broke his toe and died outside of the “Painted Porch,” which was where Chrysippus taught that wisdom descends from natural law. Members of this school of thought like (*) Seneca believed all beings were material and advocated that “virtue is the only good.” For 10 points, name this school of thought formed by Zeno of Citium and championed by Marcus Aurelius which taught resistance to emotion.

ANSWER: **Stoicism** [accept word forms] <Aditya Sivakumar>/<ed. GE>

14. These compounds act by degrading the repressors of ARFs (“A-R-Fs”) by activating the SCF-ubiquitin (“S-C-F-you-bick-wit-in”) ligase TIR1 (“T-I-R-one”). The transport of the anionic form of these compounds is mediated by ABCB (“A-B-C-B”) and PIN (“pin”) carrier proteins. These compounds stimulates one process by activating expansins and proton extrusion into the (*) apoplast in the acid growth hypothesis. These compounds suppress ethylene production and Indole-3-acetic acid is the most common naturally occurring one which controls apical dominance. For 10 points, name these plant hormones which stimulate stem elongation.

ANSWER: auxins <Bo Chi>/<ed. SC>

15. Optical molasses is a laser cooling technique that relies on this effect. One relativistic form of this effect is calculated using a ratio equal to the square root of “one minus over one plus beta.” Stellar rotations can be observed by an imaging technique that measures spectral line distortions produced by this effect. Speed guns use a type of (*) “radar” that measures velocity using this effect. Strong gravitational fields can cause light to exhibit this effect in the form of blueshift and redshift. For 10 points, name this effect that causes a siren’s pitch to increase as it moves towards you.

ANSWER: Doppler effect [accept Doppler imaging, accept Doppler radar] <Lalit Maharjan>/<ed. SC>