# **Collective Early Release Entry-level Set (CERES)**

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## Packet 2

#### Tossups:

1. During this conflict, the "Desert Fox" Erwin Rommel lost the Battle of El Alamein in Egypt. One side in this conflict launched Operation Barbarossa, which was defeated at the Battle of Stalingrad. Offenses during this conflict included the Battle of the Bulge and a landing at (\*) Normandy that began an invasion launched by the Allies on D-Day. For 10 points, name this war in which the Allies defeated Nazi Germany.

ANSWER: World War II [or the Second World War] < Koutsoukos, History>

2. One author who wrote in this language wrote the Pillow Book, and another wrote the travelogue Narrow Road to the Deep North. One story written in this language is regarded as the world's first novel, and a modern author who writes in this language is (\*) Haruki Murakami. A poem format with lines of 5, 7, and 5 syllables was originally written in, For 10 points, what language used to write The Tale of Genji and the haiku?

ANSWER: Japanese < Bodducherla, Literature>

3. On this astronomical object, scientists have observed a heart-shaped region of lighter color than its surroundings. This object became the first Kuiper Belt object to be discovered when Clyde Tombaugh observed it in 1930. Following the discovery of Eris, the IAU (\*) reclassified this object as a dwarf planet in 2006. Charon orbits, for 10 points, what object once widely thought to be the ninth planet from the Sun?

ANSWER: Pluto < Kher, Science >

4. A boy in this novel is given the Henry Ward Beecher Medal at the end. The dog Daisy throws up on the protagonist's Boba Fett costume in this novel, making him attend a party as Ghostface and hear Jack making fun of him. In this novel, the principal (\*) Mr. Tushman introduces the main character to Charlotte and the bully Julian. For 10 points, name this RJ Palacio novel about Auggie Pullman, a boy with a facial disfigurement.

ANSWER: Wonder < Gjesfjeld, Literature>

5. This substance is stopped when thrombin converts fibrinogen molecules into fibrin. Sickle cell anemia occurs due to a mutation in hemoglobin, which is carried by this substance through venules and capillaries. Platelets help this substance (\*) "clot," and it is pumped out of the aorta and through arteries and veins as it carries oxygen through the body. For 10 points, name this red fluid found in humans.

ANSWER: **blood** <Kher, Science>

6. This author wrote about a pair of lovers who lived in a kingdom by the sea in his poem "Annabel Lee". In one of this author's short stories, the narrator admits to killing a man and hiding his heart under the floorboards. This man's most famous poem describes a visit by the title (\*) bird who only repeats the word "nevermore". For 10 points, what author wrote short stories such as "The Tell-Tale Heart" and the poem "The Raven"?

ANSWER: Edgar Allan **Poe** <Bodducherla, Literature>

7. Countries must specialize in their production in order to benefit from this process according to the theory of comparative advantage. Mercantilism attempts to gain wealth from this process, whose "free" variety, exemplified by the (\*) NAFTA agreement, involves governments not placing tariffs, which tax this process. Countries import and export goods as part of, for 10 points, what process through which countries swap goods?

ANSWER: **trade** [accept word forms; accept (international) **commerce**; prompt on <u>importing</u> or <u>exporting</u> before mention] <Kher, Social Science>

8. A Laura Esquivel novel about Tita de la Garza is titled "Like Water For" this substance. Its name comes from an Aztec word likely meaning "bitter water" and it is the primary component of a mole (moh-lay) sauce. Ancient Mexicans cultivated many (\*) cacao trees to create this foodstuff. For 10 points, name this sweet food which is manufactured by Hershey in the US and comes in dark and milk varieties.

ANSWER: chocolate [or chocolatl, or cacahuatl, or kakawa] < R. Ganeshan, General Knowledge>

9. This kind of substance is created in a tokamak, which uses a powerful magnetic field to make it shaped like a torus. These substances are made out of free electrons and positively-charged cations and conduct electricity. Like gases, this state of matter has no definite shape or (\*) volume. For 10 points, name this 4th fundamental state of matter that is created by heating gases until they become ionized.

ANSWER: **plasma** < Jogadhenu, Science>

10. The Well of Mimir is located underneath one of these objects, and grants wisdom to anybody who drinks from it. The squirrel Ratatoskr runs between the top and bottom of one of these objects to relay messages. The (\*) roots of one of these objects are gnawed by the serpent Níðhöggr (NEETH-hogger). The Nine Worlds are found around Yggdrasil, a giant one of, for 10 points, what large leafy plants?

ANSWER: trees [accept any specific types of trees] <Gollamudi, Mythology>

11. This state's high point, Britton Hill, is the lowest high point of any of the fifty states. This state and a state to its north share the Okefenokee Swamp, and Lake Okeechobee is in this state. This state's largest city of (\*) Jacksonville lies 150 miles from the Georgia border, and this state has the largest population of Cubans in the US. For 10 points, what state contains cities like Orlando and Tallahassee?

ANSWER: Florida < Bhattacharyya, Geography>

12. This instrument was played by the composer of "Watermelon Man", Herbie Hancock. Guitar, drums, bass, and this instrument form a jazz rhythm section. "Take the 'A' Train" was the signature song of a bandleader who played this instrument, (\*) Duke Ellington. The blind Stevie Wonder notably played this instrument, whose three foot-operated pedals are oft-used in jazz. For 10 points, what instrument has 88 white and black keys?

ANSWER: **piano**forte [prompt on <u>keyboard</u>] <Kher, Fine Arts>

13. Depending on their mineral composition, rocks of this type can be classified as felsic or mafic. Iceland's black sand beaches are created by this type of rock, which include "extrusive" types such as pumice and a black glassy substance called (\*) obsidian. Basalt is one of the most common examples of, for 10 points, what rocks which are formed from volcanic activity, as opposed to metamorphic or sedimentary rocks?

ANSWER: igneous rocks < Gollamudi, Science>

14. The first five books of the Bible are often called the "Law of" this man. This man broke a pair of stone tablets in anger over his people's worship of a golden calf. This man was found as a baby floating in a basket by (\*) Pharaoh's daughter. This man spoke to God on Mount Sinai and returned with the Ten Commandments. For 10 points, name this Jewish prophet who led the Jews out of Egypt by parting the Red Sea.

ANSWER: Moses [or Moshe] < Gjesfjeld, Religion>

15. A legendarily crazy holder of this position tried to appoint his horse into a government position and had the name "Little Boots." The first holder of this position defeated Mark Antony at the Battle of Actium. A holder of this position may have played the (\*) fiddle during a fire, and its first holder was the adopted son of Julius Caesar. Augustus and Nero held, for 10 points, what position that ruled a massive Italian-based empire?

ANSWER: **Roman emperor** [accept obvious equivalents like **emperor of Rome**; accept **imperator** or **princeps civitatis**; prompt on **emperor** by asking "of where?"; prompt on augustus or caesar; do not accept or prompt on "King of Rome"] <Emmanuel, History>

16. A speedrunner who played this game was the subject of a 2020 paper accusing him of cheating, observing statistically impossible drop rates for items like blaze rods. An urban legend about this game concerned the existence of a character named (\*) "Herobrine". Although this game has no story, one can beat this game by killing the Ender Dragon. For 10 points, in what game might you be killed by exploding creepers?

ANSWER: Minecraft < Thompson, Popular Culture>

17. This country's walled port city of Saint-Malo was a historic center of piracy and is the starting point for a sailing race that ends at this country's overseas territory of Guadeloupe. The only Celtic language in mainland Europe is spoken in this country's region of Brittany, which is west of (\*) Normandy. The Seine (sen) River passes through this nation's capital city. For 10 points, in what country is the Eiffel Tower found?

ANSWER: **France** [accept Fifth **French Republic** or **République française**] < Sahgal, Geography>

18. While in the House of Representatives, Abraham Lincoln opposed this war with the "Spot Resolutions." The Wilmot Proviso tried to ban slavery in lands gained from this conflict. The Treaty of Guadalupe Hidalgo ended this conflict, which began after a dispute over the (\*) Rio Grande river and led to Santa Anna's country ceding California to the US. For 10 points, in what 1840s war did the US fight its southern neighbor?

ANSWER: Mexican-American War [or Mexican War] < Koutsoukos, History>

19. Z-scores are calculated by subtracting this value from a data value and dividing by the standard deviation. This value is always greater than or equal to a similarly-named "geometric" quantity according to the AM-GM inequality. In data sets with large outliers, the (\*) median provides a better "average" than this value. For 10 points, what value is computed by adding several numbers and dividing by the number of inputs?

ANSWER: arithmetic **mean** [prompt on average until it is read] < Bhattacharyya, Math>

20. This president's campaign coined the phrase "It's the economy, stupid." This two-time governor of Arkansas signed Don't Ask, Don't Tell and NAFTA into law. This man's vice president, Al Gore, later lost the tightly contested presidential election of 2000. This president was (\*) impeached in 1998 after his affair with Monica Lewinsky. For 10 points, name this president whose wife Hillary lost the 2016 presidential election.

ANSWER: Bill <u>Clinton</u> [or William Jefferson <u>Clinton</u>] < A. Gao, History>

#### **Bonuses:**

1. In this novel, the protagonist is locked inside Room 101 to be tortured with rats. For 10 points each:

[10] Name this George Orwell novel titled after a year, in which Winston Smith is arrested by the thought police in the fictional nation of Oceania.

ANSWER: **1984** 

[10] This lover of Winston is also arrested and tortured until she wishes her pain upon him. She met Winston doing voluntary work for the Junior Anti-Sex League.

ANSWER: **Julia** 

[10] This is the name of the leader of Oceania and the Party. Signs saying "[This figure] is watching you" are everywhere in the world of 1984.

ANSWER: **Big Brother** < Thompson, Literature>

2. This man carries a giant head on his back in a painting by Girolamo Forabosco. For 10 points each: [10] Name this Biblical figure who is depicted holding a sling in a Michelangelo sculpture showing him before he slays Goliath.

ANSWER: **David** 

[10] Michelangelo's David was displayed in public in this Italian city, a center of the Renaissance home to the Duomo cathedral and the Uffizi Gallery.

ANSWER: **Florence** [or **Firenze**]

[10] This other Italian artist's bronze David was the first freestanding male nude since antiquity. He is also known for depicting Erasmo Da Narni in his equestrian sculpture Gattamelata.

ANSWER: **Donatello** < Young, Fine Arts>

3. Mustafa Kemal Ataturk abolished this position in 1924. For 10 points each:

[10] Name this Islamic title that translates to "successor." It was intended for the leader of the Muslim community after Muhammad's death and given to his companion Abu Bakr, who was the first of four "Rightly Guided" ones.

ANSWER: **caliph** [or **khilāfah**]

[10] Followers of this sect of Islam believe that caliphs should be imams chosen from the descendants of Muhammad. This sect split with the Sunnis over the issue of the caliphate.

ANSWER: **Shi'a** Islam [or **Shi'ite**s]

[10] Some of the most important Shiite holy sites are in the cities of Najaf and Karbala in this country. This country's former ruler, Saddam Hussein, suppressed Shi'ite political movements before his 2003 overthrow by a US invasion.

ANSWER: Republic of Iraq < Ahmed, Religion>

4. This novel's protagonist saves Eva St. Clare from drowning. For 10 points each:

[10] Name this Civil-War era novel about a runaway slave who is released by the Shelbys before dying after being beaten by Simon Legree. Abraham Lincoln reportedly called it "the little book that started this great war" because of its impact on the American political landscape.

ANSWER: <u>Uncle Tom's Cabin</u> [or <u>Life Among the Lowly</u>]

[10] Uncle Tom's Cabin was written by this abolitionist and author, who lived in Brunswick, Maine at the time.

ANSWER: Harriet Beecher Stowe

[10] This other piece of Civil War literature was far more friendly to the South. It tells the story of Scarlett O'Hara, the daughter of a plantation owner, and was later adapted into a famous 1939 film that won ten Oscars, including Best Picture.

ANSWER: **Gone with the Wind** < A. Gao, Literature>

- 5. The launch of Sputnik 1 led to the formation of this agency in 1958. For 10 points each:
- [10] Name this agency that launched the first American astronaut into space in 1961, three weeks after Soviet cosmonaut Yuri Gagarin achieved the same feat. It conducts many launches from Cape Canaveral in Florida.

ANSWER: **NASA** [or the **National Aeronautics and Space Administration**]

[10] This astronaut became the first American to orbit the Earth aboard Friendship 7 in 1962, orbiting the Earth three times over a five-hour period. He later became a Democratic congressman before returning to space in 1998, becoming the oldest man in space.

ANSWER: John Herschel **Glenn**, Jr.

[10] Arguably NASA's greatest success was this space mission commanded by Neil Armstrong, the first to touch down upon the surface of the moon.

ANSWER: **Apollo 11** [prompt on just Apollo] <Koutsoukos, History>

6. Not all countries have rectangular flags! For 10 points each:

[10] This European nation's flag is a red square with a white cross through the middle. It is home to cities such as Davos, Lausanne, and Geneva, and its capital city is Bern.

ANSWER: **Switzerland** [accept **Swiss Confederation**]

[10] This country has the only national flag that isn't a quadrilateral, instead consisting of two triangles stacked on top of one another. Mountaineers can climb Mount Everest in this country after first arriving in this nation's capital city of Kathmandu.

ANSWER: Federal Democratic Republic of Nepal

[10] This country's square flag contains a yellow field on the left and the Keys of Heaven on the right. St. Peter's Square is a major landmark in this country.

ANSWER: Vatican City [accept Vatican City State; accept Holy See] < Arjunan, Geography>

- 7. Klinefelter's syndrome is a condition in which males are born with two instead of one of these chromosomes. For 10 points each:
- [10] Name these sex chromosomes that are contrasted with the Y chromosome. Most women have two of these chromosomes.

ANSWER: **X** chromosome [prompt on <u>sex</u> chromosome or <u>allosome</u>]

[10] This area of the cell contains the cell's genetic material sometimes in the form of histones which make up chromosomes.

ANSWER: cell **nucleus** [accept **nucleolus**]

[10] During this longest phase of the cell cycle, chromosomes are replicated. This phase precedes the M phase and contains the sub-phases G1, S, and G2.

ANSWER: interphase < Bhattacharyya, Science >

8. Answer the following about early English colonies in the Americas, for 10 points each:

[10] One of the first colonies in the Americas was Plymouth in modern Massachusetts. A feast involving both the Pilgrims that settled Plymouth and the natives of the area is now celebrated on this November holiday.

ANSWER: Thanksgiving

[10] Far to the south of Plymouth Colony was this English colony in modern-day Virginia. John Smith led this colony through the "Starving Time," and a tobacco farmer from this colony named John Rolfe married Pocahontas.

ANSWER: **Jamestown** Colony [or **Jamestown** Settlement]

[10] Even before Jamestown, the English founded this colony in modern-day North Carolina in 1587. This colony's population was discovered to have mysteriously disappeared three years later, leaving behind the word "CROATOAN" carved on a tree.

ANSWER: Roanoke Colony < Koutsoukos, History>

- 9. This phenomenon may form fulgurite when it hits the ground. For 10 points each:
- [10] Name this weather phenomenon produced during strong storms. "Rods" named for this phenomenon may be placed on top of buildings to protect them from it.

ANSWER: **lightning** [prompt on thunder]

[10] Lightning can be extremely dangerous to boaters because of the electrical conductivity of this substance, which is also the reason that swimming pools are closed during thunderstorms.

ANSWER: water

[10] This country's Lake Maracaibo has lightning storms almost 300 days a year, a phenomenon termed the "Catatumbo lightning". Despite its name, Lake Maracaibo is actually a bay of the Caribbean Sea, which lies to the north of this country.

ANSWER: Venezuela < A. Gao, Science>

- 10. Chancellor Angela Merkel **(AAN-guh-luh MAIR-kull)**, who has governed this country since 2005, did not run for re-election in its 2021 elections. For 10 points each:
- [10] Name this European country where Merkel's Christian Democratic Union party currently holds 151 seats in its parliament, the Bundestag **(BOON-duh-shtahg)**.

ANSWER: **Germany** 

- [10] This left-leaning party led by Vice-Chancellor Olaf Scholz **(SHOLTS)** defeated Merkel's preferred candidate, Armin Laschet **(LAH-shet)**, in the 2021 elections. Since 2013, this party has governed with Merkel in a "Grand Coalition".
- ANSWER: **Sozialdemokratische** Partei Deutschlands [accept **Social Democratic Party** of Germany and equivalents, such as **Social Democrats**; accept the **SPD**; do not accept or prompt on just "Socialist Party" or "Democratic Party"]
- [10] A party supporting minorities from this country living in Germany, the South Schleswig **(SHLESS-vig)** Voters' Association, unexpectedly won a seat in the 2021 elections. This northern neighbor of Germany has its capital at Copenhagen.

ANSWER: **Denmark** <Hardin-Bernhardt, Current Events>

- 11. A film from this country about a huge animal that Mija takes care of is called Okja. For 10 points each:
- [10] Name this country home to the director of the film Shiri, a movie about a spy from this country's northern neighbor that takes place in this country's city of Seoul.

ANSWER: **South Korea** [accept **Hanguk** or **Namhan**]

[10] This film directed by the South Korean Bong Joon-ho contrasts the wealthy Kim family with the poor Park family. At the 2020 Oscars, it won Best Picture, becoming the first international film to do so.

ANSWER: **Parasite** [accept **Gisaengchung**]

[10] This other film directed by Bong Joon-ho takes place in a train carrying all of humanity after an attempt to stop global warming by scientists lowered global temperatures. A show of the same name as this movie starring Daveed Diggs will soon have a third season on TNT.

ANSWER: **Snowpiercer** [accept **Seolgungnyeolcha**] < Young, Popular Culture>

- 12. You are a chemist. Answer some questions about the equipment you might use to prevent yourself from being injured in the lab, for 10 points each:
- [10] You should wear these things to prevent dangerous chemicals from splashing into your eyes. A common lab safety poster depicts a woman using a cane with the caption "Carol didn't wear [these things]... now she doesn't need them".

ANSWER: safety **goggles** 

- [10] When performing a reaction that may produce hazardous gases, you should do it inside one of these things. These things contain powerful ventilation systems that remove toxic gases from the air. ANSWER: **fume hood**s
- [10] If something in your lab catches fire, rather than pouring water on it, you should use this substance. This granular substance is effective at extinguishing fires because its small grains choke the flames and it is generally unreactive.

ANSWER: sand < Thompson, Science >

- 13. For 10 points each, answer the following about the Doomsday Clock:
- [10] The Doomsday Clock was originally created to measure how close humans were to a catastrophe caused by these weapons.

ANSWER: **atomic bombs** [accept **nuclear bombs** or **hydrogen bombs**, prompt on **bombs** with "what type of bombs?"]

[10] On the Doomsday Clock, this time is used to represent when we've reached global catastrophe. The farthest we've been from this time has been 17 minutes.

ANSWER: **midnight** [accept equivalents like **12 AM**]

[10] The clock was set to 17 minutes from midnight following the dissolution of this country, which was opposed to the United States in the Cold War.

ANSWER: the <u>Soviet Union</u> [or the <u>USSR</u>, or the <u>Union of Soviet Socialist Republics</u>, or the <u>Sovetsky Soyuz</u>, or the <u>Soyuz Sovetskikh Sotsialisticheskikh Respublik</u>, or the <u>SSSR</u>; do not accept or prompt on "Russia"] <Gollamudi, General Knowledge>

14. This character's name was inspired by several James Whitcomb Riley poems. For 10 points each: [10] Name this rag doll created by American artist Johnny Gruelle. She is friends with the Camel with the Wrinkled Knees and Andy.

### ANSWER: **Raggedy Ann**

[10] Raggedy Ann was adopted as a symbol for a movement opposing these things because Gruelle created her when his daughter died after receiving one of these things. Andrew Wakefield was stripped of his medical license after publishing a fraudulent paper alleging that these things cause autism.

ANSWER: **vaccine**s

[10] Raggedy Ann is also friends with Beloved Belindy, a stereotype of women of this race. Aunt Jemima was also considered a stereotype of this race.

ANSWER: **Black** people [or **African-Americans** or other obvious equivalents] <Gjesfjeld, General Knowledge>

15. Answer the following about the theories of pseudohistorian Gavin Menzies, for 10 points each:

[10] In his first book, Menzies makes the claim that this Chinese dynasty discovered the Americas in 1421. This dynasty preceded the Qing **(ching)** dynasty and was known for its pottery.

ANSWER: **Ming** dynasty

[10] Menzies claims that a fleet under this admiral not only discovered the Americas before Columbus, but also circumnavigated the globe before Magellan. This admiral was employed by the Ming dynasty's Yongle Emperor, and traded with the people of Brunei, India, and Southeast Asia on his expeditions.

ANSWER: **Zheng** He

[10] Gavin Menzies was inspired to write his first book after visiting this current Chinese capital city. During the Ming dynasty, the Chinese capital was moved to this city.

ANSWER: **Beijing** [or **Peking**] < Young, History>

16. For 10 points each, answer the following about heroes who fought in the Trojan War:

[10] The end of the Trojan war was facilitated by the Trojan Horse, which was an idea given to this hero by Athena. Other notable actions of his include tricking a cyclops by introducing himself as "Nobody".

ANSWER: Odvsseus

[10] The strongest hero in the Trojan War was this near-invincible warrior whose only weak spot was a point on his heel. He attained this near invulnerability after being dipped in the River Styx by his mother.

ANSWER: Achilles

[10] The Trojan War began after the kidnapping of Helen by this hero. He is the person who slew Achilles by shooting him in the heel with an arrow, and was a son of King Priam, along with Hector. ANSWER: **Paris** <Gollamudi, Mythology>

17. For 10 points each, answer the following about the eradication of diseases:

[10] The viral disease rinderpest, which infected these animals, has been eradicated around the world. Most common milk comes from these animals, and beef is the meat obtained from them. ANSWER: **cow**s [accept **cattle**, accept **bull**s]

[10] This is the only human infectious disease to have been totally eradicated. It is caused by the variola virus, and its last naturally occurring case was documented in 1977.

ANSWER: **smallpox** 

[10] This disease has been nearly-totally eradicated in many countries thanks to widespread vaccination. Jonas Salk developed a pioneering vaccine against this disease, which can cause paralysis and require patients to use iron lungs.

ANSWER: **polio**myelitis <Gollamudi, Science>

18. Though Winston Churchill's "Iron Curtain" speech described an imaginary line dividing western and eastern Europe during the Cold War, in some places it was more physical. For 10 points each: [10] Name this city, the capital of Germany, that was divided by an actual physical wall for most of

the Cold War. ANSWER: **Berlin** 

[10] Attempts to cross the Berlin Wall often took place at this location, which was nicknamed after a letter in the NATO phonetic alphabet. A tank standoff took place at this location during the 1961 Berlin Crisis.

ANSWER: **Checkpoint Charlie** 

[10] Graffiti works in this art form were common on the western side of the Berlin Wall, such as one titled "My God, Help Me to Survive This Deadly Love" depicting two world leaders kissing. Diego Rivera created many artworks in this form, such as *Man at the Crossroads*.

ANSWER: murals [prompt on paintings] < Ahmed, History>

19. For 10 points each, answer some questions about the color red in literature:

[10] Margaret Atwood, an author from this country, wrote *The Handmaid*'s *Tale*, in which handmaids are forced to dress in red. Some Handmaids try to flee to this country after leaving the former United States.

ANSWER: Canada

[10] This poet of "This Is Just To Say" described a "a red wheel/barrow/glazed with rain/water beside the white/chickens."

ANSWER: William Carlos Williams

[10] Stephen Crane's novel The Red Badge of Courage, meanwhile, was set during this war. Battles during this war included Bull Run and Antietam.

ANSWER: American Civil War < A. Gao, Literature>

20. Answer some questions about the Monster of Symmetry, the largest sporadic group, for 10 points each:

[10] The Monster is an object studied in group theory, part of the "abstract" type of this field of math. A more familiar type of this field of math involves solving for unknown variables in equations.

ANSWER: algebra

[10] An unexpected correspondence between the Monster and objects called modular forms was given this name. This is also the name used for a type of very strong illegal alcohol produced during the Prohibition period.

ANSWER: **moonshine** 

[10] Monstrous moonshine theory was partially developed by John Conway, a mathematician better known for inventing a cellular automaton with this name. It is not to be confused with a board game that also has this name, in which you try to build a family and career.

ANSWER: the **Game of Life** < Thompson, Math>