Collective Early Release Entry-level Set (CERES)

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Packet 8

Tossups:

1. A Norwegian sabotage of a heavy water plant ended Germany's attempt to create one of these devices. The first test of these devices was given the codename "Trinity". A team led by Robert (*) Oppenheimer created these devices in the Manhattan Project, and Japan surrendered from World War II after two of them were dropped on Hiroshima and Nagasaki. For 10 points, what weapons of mass destruction utilize fission?
   ANSWER: atomic bombs [or atomic weapons or nuclear bombs or nuclear weapons or nukes or fission bombs or A-bombs; prompt on bombs] <Kher, History>

2. This country's capital is home to the world's oldest Chinatown, Binondo. This country is the home of a popular condiment called banana ketchup as well as the fast food chain Jollibee. A sauce called adobo, which originated in this country's cuisine, blends Southeast Asian staples with Spanish influences. (*) Quezon City is found on this country's most populous island, Luzon. For 10 points, what country is led from Manila?
   ANSWER: Republic of the Philippines [accept Republika ng Pilipinas; or Filipinas] <Bhattacharyya, General Knowledge>

3. A compound of iron and cyanide forms the "Prussian" pigment of this color. Though usually silver, cobalt produces pigments of this color. Litmus paper turns this color in extremely basic substances with a pH of 12 or 13. A dye of this color produced by crushing (*) lapis lazuli is called ultramarine. For 10 points, sapphires are what color, which mixes with yellow to make green?
   ANSWER: blue [accept specific shades of blue] <Kher, Science>

4. One of these animals teases his friend about his classmate Susie Derkins and often sleds with him. Another of these animals sings "their tops are made of rubber, their bottoms are made of springs" and annoys Rabbit, another (*) Hundred Acre Woods resident. In Bill Watterson's comic strips, a stuffed one of these animals is friends with Calvin. For 10 points, Hobbles and a bouncy one in Winnie the Pooh are what striped cats?
   ANSWER: tigers [accept Tigger] <C. Gao, Literature>

5. The Open Door Policy was established by a holder of this position, John Hay. Madeleine Albright was the first female holder of this position, and in George Washington's cabinet, Thomas Jefferson became its first holder. Under Barack Obama, this position was held by John Kerry and (*) Hillary Clinton, who used drone strikes in the Middle East. Antony Blinken holds, for 10 points, what cabinet post in charge of foreign policy?
   ANSWER: United States Secretary of State <A. Gao, History>
6. A story from this country, the Book of Invasions, details its mythical former residents such as the Fomorians, led by Balor, and the Tuatha Dé (TOO-huh DAY). In another myth from this country, Fionn Mac Cumhail ("Finn mac Cool") acquires all the world's knowledge. Pots of (*) gold are hidden by folkloric creatures called leprechauns in, for 10 points, what country from which snakes were legendarily expelled by St. Patrick?
ANSWER: Ireland [or Эire] <Gollamudi, Mythology>

7. An obsolete and incredibly painful medical procedure known as PEG drained fluid from around this organ in order to image it with X-rays. This organ contains the limbic system, which includes the amygdala. Other parts of this organ include the temporal and frontal (*) lobes, which are part of the cerebrum. The main organ of the nervous system is, for 10 points, what organ is located inside the skull and responsible for thoughts?
ANSWER: brain <Heydt, Science>

8. While working as a lawyer, this man was kicked out of a first-class train seat at Pietermaritzburg, South Africa. This proponent of satyagraha was assassinated for his religious toleration by Nathuram Godse (GOAD-say). This man led the Salt March in protest of raised taxes by the (*) British Raj. This man's nonviolent protests inspired Martin Luther King Jr. For 10 points, name this man who led the movement for Indian independence.
ANSWER: Mahatma Gandhi [accept Mohandas Karamchand Gandhi; prompt on Mahatma] <Bhattacharyya, History>

9. A Buddhist sect centered in this country engages in contemplation of koans (koh-ahns). This country's city of Ise (ee-say) contains its holiest shrine, which is rebuilt every twenty years. Gates called torii sit at the entrances to shrines in this country. Amaterasu is among the spirits, or (*) kami, venerated by this country's indigenous religion, Shintoism. For 10 points, Zen Buddhism is practiced in what Asian island country?
ANSWER: Japan [accept Nippon-koku; or Nihon-koku] <Bhattacharyya, Religion>

10. According to this character, a certain substance is "coarse and rough" and "gets everywhere". During a battle sequence, this character says "I'll try spinning, that's a good trick", and later exclaims "Now this is (*) podracing!" Another character severs this man's limbs shortly after telling him "It's over" and "I have the high ground". For 10 points, name this protagonist of the Star Wars prequels and father of Luke Skywalker.
ANSWER: Anakin Skywalker [prompt on Skywalker; prompt on Darth Vader by asking "What was he known as before becoming Darth Vader?"] <Thompson, Popular Culture>

11. Vieta's formulas can be used to find the sum and products of the zeroes of these mathematical objects. Synthetic division may be used to factor these objects. The discriminant is a value found from the (*) coefficients of one of these objects. The second degree one of these objects is called a quadratic. For 10 points, name these objects that are defined as a sum of powers of variables.
ANSWER: polynomials [prompt on specific types like cubic or quadratic by asking "What general type of mathematical object are those?"] <Bhattacharyya, Math>

12. One feature of some dialects of this language is called yeísmo (yey-ees-moh). This language's pronoun vosotros is only regularly used in its native country. It contains two verbs meaning "to be," ser and estar, and also uses the words (*) "el" and "la" as masculine and feminine articles. "Gracias" and "hola" are words in. For 10 points, what Romance language spoken in countries Chile and Peru?
ANSWER: Spanish [or Español] <R. Ganeshan, Social Science>
13. Nigel Richards, a world champion in this game, won its French championship despite speaking no French. "Bingos" in this game give a fifty-point bonus. The first play in this game must be made through the center space on the board, which is a double (*) word score. Players of this game score many points for using rare letters like the Q and Z. For 10 points, name this board game played by forming words on a 15-by-15 board.

ANSWER: Scrabble <Gjesfjeld, General Knowledge>

14. A statue of the Commendatore drags the title womanizer to hell in an opera by this composer. This composer of Don Giovanni created another opera in which The Queen of the Night's daughter, Pamina, is eventually rescued by Tamino. The Kochel catalogue categorizes this composer's works, including a serenade titled (*) "Eine Kleine Nachtmusik." For 10 points, name this Austrian child prodigy and composer of The Magic Flute.

ANSWER: Wolfgang Amadeus Mozart <Emmanuel, Fine Arts>

15. A reflecting type of these devices was developed by Isaac Newton, and these devices typically utilize refraction through two mirrors or lenses. One of these devices in Arecibo, Puerto Rico collapsed in 2020, while another of them is named for James (*) Webb. That one of these devices replaced one named for Hubble in Earth's orbit. For 10 points, what devices are used to take detailed pictures of outer space?

ANSWER: telescopes <Kher, Science>

16. An arch-shaped rock formation is found in the city of Cabo San Lucas in this country. States of this country include Veracruz and Tabasco, and the Zapotec people were based in Oaxaca (wah-HAH-kah) in this country. This country shares the Yucatán peninsula with its southern neighbors, Belize and Guatemala, on which (*) Cancún lies. The Rio Grande forms much of the northern border of, for 10 points, what country located south of the US?

ANSWER: Mexico [or United Mexican States; accept Estados Unidos Mexicanos] <A. Gao, Geography>

17. A ruler with this first name employed Francis Drake as an admiral in a conflict against the Spanish Armada and declared she had the "heart and stomach of a king." Shakespeare lived during the "era" of that ruler with this name. Another ruler with this name lost her daughter-in-law (*) Diana in a car crash and is the mother of Charles, Prince of Wales. For 10 points, give this name of the current queen of the United Kingdom.

ANSWER: Elizabeth [accept Elizabeth I or Elizabeth Tudor or Elizabeth II] <Emmanuel, History>

18. A character considered the king of this kind of animal, Sun Wukong, is trapped under a mountain in Journey to the West. The Bandar-log tribe is comprised of this type of animal, who kidnap the main character (*) Mowgli in The Jungle Book. In a popular series of children's stories, one of these animals lives with a man in a yellow hat. For 10 points, what kind of animal is Curious George?

ANSWER: a monkey <Jogadhenu, Literature>

19. This landmass's existence explains why lemurs can be found in both India and Madagascar, and its existence was proposed by Alfred Wegener after he noticed that South America and Africa fit together like puzzle pieces. The Tethys Sea surrounded this entity, which broke up into (*) Laurasia and Gondwana. For 10 points, what prehistoric supercontinent broke up about 250 million years ago?

ANSWER: Pangaea <Bodducherla, Science>
20. In this book, a character breaks one of the Seven Commandments by drinking alcohol. Old Major teaches the song “Beasts of England” to the characters in this book, and the horse Boxer helps rebuild a windmill after winning the Battle of the Cowshed against (*) humans. Napoleon and his pigs teach the mantra “four legs good, two legs bad” as they govern the title location of, for 10 points, what George Orwell novella?

ANSWER: Animals Farm: A Fairy Story <A. Gao, Literature>
Bonuses

1. "I saw the best minds of my generation destroyed by madness". For 10 points each, answer the following about Allen Ginsberg:
[10] Ginsberg wrote "Howl," which is a famous poem from this movement whose other poets include Lawrence Ferlinghetti.
ANSWER: Beat Movement [accept Beat Generation, or beatniks]
[10] In another Ginsberg poem, he describes a supermarket in this state. This state is home to Ferlinghetti's City Lights Bookstore in San Francisco, where "Howl" was published.
ANSWER: California [accept A Supermarket in California]
[10] A Supermarket In California describes asking this poet “Which way does your beard point tonight?" This poet wrote "I Sing the Body Electric" in his collection Leaves of Grass.
ANSWER: Walt Whitman <A. Gao, Literature>

2. Answer the following about leaving the European Union, for 10 points each:
[10] In 2020, the UK left the European Union, in a move popularly referred to by this six-letter name.
ANSWER: Brexit
[10] The UK wasn't the first place to leave the EU, though. In 1985, this overseas territory of Denmark left the EU in a dispute over fishing rights following a referendum called by its Siumut political party. Its capital city is Nuuk.
ANSWER: Greenland [or Grønland, or Kalaallit Nunaat]
[10] This African country was part of the European Union before its independence from France. This nation has a green and white flag with a red crescent and star on it.
ANSWER: Algeria [or al-Jazāʾiriyya] <A. Gao, History>

3. For 10 points each, answer the following about beings made of clay in mythology:
[10] In Greek myth, this titan created the first humans from mud and water. He is better known for giving fire to humans, for which he was chained to a rock by Zeus and has his entrails eaten by an eagle daily.
ANSWER: Prometheus
[10] In Babylonian myth, the goddess Aruru created Enkidu as a partner for this hero. After fighting with Enkidu, this hero travels to a forest and slays a being known as Humbaba.
ANSWER: Gilgamesh
[10] The Hindu god Ganesha was made out of clay before being beheaded and having his head replaced by that of this animal. A white one of these animals represents royalty in parts of Southeast Asia.
ANSWER: elephants <Gollamudi, Mythology>

4. These events are most common in a namesake "alley" in the Great Plains. For 10 points each:
[10] Name these phenomena which result when rotating updrafts generate a rapidly spinning column of air. When they occur over water, they are typically termed waterspouts.
ANSWER: tornado
[10] Tornadoes are measured on the Fujita scale, with the least severe tornadoes being given a rating of F1, and the most severe tornadoes being given this rating.
ANSWER: F5
[10] Tornadoes typically form from this kind of thunderstorm. They are distinguished from standard thunderstorms by their possession of a mesocyclone, a strong rotating updraft which can develop into a tornado.
ANSWER: supercells <Heinonen, Science>
5. Triangles have many centers! For 10 points each:
[10] The centroid is a center of a triangle that can be found by constructing three of these lines and finding the point of intersection. These lines split the sides into two equal line segments.
ANSWER: **medians**
[10] Another center of a triangle is the circumcenter, which is the intersection of the perpendicular bisectors of a triangle. Perpendicular lines intersect with other lines at an angle with this measure.
ANSWER: **90 degree** angle [accept **right** angle]
[10] In a right triangle, the remaining two angles must have this property of summing to 90 degrees.
ANSWER: **complementary** angles <Heydt, Math>

6. This leader's "Four Pests Campaign" accidentally caused a famine by advocating for the killing of sparrows, causing many locusts to destroy crops. For 10 points each:
[10] Name this revolutionary who defeated the Kuomintang party in his country's civil war. He oversaw the Great Leap Forward and the Cultural Revolution.
ANSWER: **Mao Zedong** [or **Mao Tse-tung** or **Chairman Mao**]
[10] Mao Zedong established this country's Communist regime, which is currently led by Xi Jinping and censors the Internet through its "Great Firewall."
ANSWER: People's Republic of **China** [or **PRC**; do NOT accept or prompt on "Republic of China" or "ROC"]
[10] Deng (DUNG) Xiaoping, a Communist leader of China who took power following Mao's death, infamously ordered troops to fire on Chinese protesters in this Beijing square in a 1989 massacre.
ANSWER: **Tiananmen Square** [accept the **Tiananmen Square** protests of 1989 or **Tiananmen Square massacre**] <Arjunan, History>

7. The Bobo Ashanti is a notable "mansion" of this religion. For 10 points each:
[10] Name this religion which Bob Marley practiced. This religion reveres Haile Selassie as the second coming of Jesus and refers to God as "Jah."
ANSWER: **Rastafari**anism
[10] Rastafarianism is primarily practiced in this Caribbean country known for its reggae music. The Twelve Tribes of Israel mansion was founded in this country.
ANSWER: **Jamaica**
[10] Most Rastafaris smoke this substance, which they call "ganja", as a religious sacrament. Rastafaris' use of this drug has created legal problems in countries that ban its recreational use.
ANSWER: **cannabis** [or **marijuana**, or colloquialisms like **weed**] <Bhattacharyya, Religion>

8. Thomas More wrote about a society described by this term where the only despised religion was atheism. For 10 points each:
ANSWER: **utopia**
[10] Thomas More's Utopia was widely praised by people with this ideology. This ideology was developed by Karl Marx in works such as **Das Kapital** and its namesake "Manifesto."
ANSWER: **communism**
[10] More was heavily influenced by Renaissance Humanists, who were largely based in this modern-day country. Renaissance centers of learning in this country included Urbino and Bologna.
ANSWER: **Italy** <Gjesfjeld, Philosophy>
9. Answer some questions about noted wacko David Icke (ick), for 10 points each:
[10] Icke has published multiple books advancing his ridiculous theory that most prominent political figures are actually shapeshifting alien examples of these animals. He also identifies these creatures with the Sumerian gods called the Annunaki, for some reason.
ANSWER: **lizard** people [or reptilians, or reptoids, or reptiloids, or saurians, or draconians, because there are so many names for this nonsense]
[10] Before becoming a raving lunatic, Icke had a promising career as a professional goalkeeper for Hereford United, who played this sport. Famous players of this sport include Neymar and David Beckham.
ANSWER: **soccer** [or association football]
[10] Icke's theories have often relied heavily on *The Protocols of the Elders of Zion*, a fabricated text purporting to describe a plan by these people for world domination. He also advanced the gross theory that these people secretly funded the Holocaust.
ANSWER: **Jews** [accept any obvious equivalents like Jewish people] <Thompson, General Knowledge>

10. Answer the following about surrealism, for 10 points each:
[10] This Belgian surrealist depicted a train coming out of a fireplace in *Time Transfixed* and painted an apple over a man's face in *The Son of Man*. He may be best known for *The Treachery of Images*, which depicts a pipe with the caption "This is not a pipe."
ANSWER: Rene **Magritte**
[10] This most prominent Spanish surrealist is known for his outstanding moustache and his paintings of melting clocks like *The Persistence of Memory*.
ANSWER: Salvador **Dalí**
[10] A Dalí painting subtitled "Corpus Hypercubus" depicts this person on the net of a hypercube. Artist Andres Serrano's "Piss [this person]" depicts a figurine of this religious figure being crucified submerged in a tank of urine.
ANSWER: **Jesus Christ** [accept either underlined portion] <Young, Fine Arts>

11. Answer the following about aviation disasters. For 10 points each:
[10] While on a sightseeing flight over this continent, the crew on Air New Zealand Flight 901 believed they were flying over McMurdo Sound, but instead were flying into Mount Erebus, the southernmost active volcano on Earth and one of the highest mountains on this continent.
ANSWER: **Antarctica**
[10] This airline suffered two large disasters in 2014, one when its Flight 17 was shot down over Ukraine, and the other when its Flight 370 went missing after departing from Kuala Lumpur.
ANSWER: **Malaysia Airlines Berhad**
[10] Because of a terrorist threat at a nearby airport, KLM Flight 4805 and Pan Am Flight 1736 were diverted to the smaller Los Rodeos Airport on Tenerife, an island in this Spanish archipelago. The two planes ended up colliding, killing 583 in the deadliest aviation accident ever.
ANSWER: **Canary Islands** <A. Gao, History>

12. Answer these questions about parody songs, for 10 points each:
[10] This musical artist is known for his parody songs, such as "Eat It", "Amish Paradise", and "White and Nerdy". His primary instrument is the accordion.
ANSWER: **"Weird Al" Yankovic** [accept either underlined portion]
[10] A parody of Estelle's song *American Boy* about this video game tells the listener that the singer has "ten kills on the board right now" and celebrates their "number one victory royale".
ANSWER: **Fortnite**
[10] In a Minecraft parody song by CaptainSparklez, the singer says this two-word phrase after exclaiming "Creeper!"
ANSWER: **"aw man"** <Heinonen, Popular Culture>
13. A Zahn cup can be used to measure this quantity. For 10 points each:
[10] Identify this quantity, a measure of the resistance of a fluid to flow. Liquids with a high amount of this quantity, such as maple syrup, move very slowly.
ANSWER: viscosity
[10] Viscosity helps describe the internal variety of this force within a fluid. This force is often defined as the resistance that occurs when you rub two objects together.
ANSWER: friction
[10] Superfluids have a total of this amount of viscosity, meaning that they lose no energy when flowing. Neutrons have this much electric charge.
ANSWER: 0 [or zero] <Gollamudi, Science>

14. For 10 points each, answer the following about oddly named places scattered throughout Europe:
[10] The silly-sounding town of Midelfart is located on the island of Fünen off this country's coast. Much of this country lies on the Jutland Peninsula and its island of Zealand is home to a statue of the Little Mermaid.
ANSWER: Kingdom of Denmark
[10] A town simply named "Å" (oh) is located in the Lofoten Islands along the coast of this country, which borders Sweden to its east. This country is also known for its scenic fjords.
ANSWER: Kingdom of Norway
[10] This constituent country of the UK took it to the other extreme by making one town have a 58-character name. That town, commonly known as Llanfair (thlan-FIRE), lies on this country's island of Anglesey, and this nation also contains the cities of Cardiff and Swansea.
ANSWER: Wales [accept Cymru; the full town name is Llanfairpwllgwyngyllgogerychwyrndrobwllllantysiliogogogoch] <R. Ganeshan, Geography>

15. For 10 points each, answer the following about various parts and products of flowers:
[10] These objects start as ovules within the ovaries of flowers. Planting one of these objects in the ground will allow a new flower to grow from it, and most fruits contain these things within them.
ANSWER: seeds
[10] This male part of a flower consists of an anther and a filament. This part of the flower is often contrasted with the pistil.
ANSWER: the stamen
[10] An allergy to this powdery substance created by plants is common during the spring. It is often spread by animals who feed from flowers, such as bees who drink their nectar.
ANSWER: pollen <Gollamudi, Science>

16. A holder of this position, Gilderoy Lockhart, is revealed to have written multiple best-selling adventure novels by stealing other people's experiences and then wiping their brains. For 10 points each:
[10] Name this position which is said to be "jinxed" because its holders, such as Quirinus Quirrell, are never able to last more than one year.
ANSWER: Hogwarts Professor of Defense Against the Dark Arts [accept any answer describing a Hogwarts teacher of Defense Against the Dark Arts or equivalents; prompt on answers like Hogwarts Professor]
ANSWER: Harry Potter [accept either underlined portion]
[10] The position of Professor of Defense Against the Dark Arts is coveted by this other character in the Harry Potter series. This character is the title "Half-Blood Prince" of the series' sixth book, in which he kills Dumbledore at its end.
ANSWER: Severus Snape [accept either underlined portion] <Kher, Literature>
17. Some scientists have proposed building these objects with magnets so that collisions between them repel each other and cause less hard blows. For 10 points each:
[10] Name these objects whose ZEROI type uses columns made of polymers to absorb blows. Researchers have still not found a way to use these objects to prevent a condition called chronic traumatic encephalopathy, or CTE.
ANSWER: football helmets [prompt on helmets by asking "used for what activity?"]
[10] The ZEROI helmet's polymerized columns helps it absorb the "kinetic" type of this quantity, which governs motion and is contrasted with the "potential" type of it. This quantity must be transferred for an object to do work or produce heat.
ANSWER: energy [accept kinetic energy or potential energy]
[10] Many of these synthetic materials, like polyurethane, are used to absorb blows in most football helmets. These synthetic materials may be found in the form of cans or bottles in polluted parts of the ocean because they do not quickly degrade in the environment.
ANSWER: plastics <Kher, Science>

18. There are 34 towns and cities as well as 36 townships with this name. For 10 points each:
[10] Give this extremely common American place name. The best-known city with this name, however, may not be located in any state, but is the hometown of the Simpsons.
ANSWER: Springfield
[10] America's first Springfield is now the third most populous city in this state, whose capital and largest city is Boston.
ANSWER: Massachusetts
[10] The most populous Springfield in America is found in southwestern Missouri and nicknamed the "Queen City of" this mountain range, which is split between southern Missouri and northwest Arkansas.
ANSWER: the Ozarks <Tagtmeier, Geography>

19. This poet wrote "I hope to see my Pilot face to face / When I have crost the bar" in his poem "Crossing the Bar". For 10 points each:
ANSWER: Alfred, Lord Tennyson
[10] Tennyson's poem The Charge of the Light Brigade describes the title cavalry force charging into the "valley of" this concept. John Donne wrote a poem telling this concept to "be not proud", and an Emily Dickinson poem begins "Because I could not stop for" this concept.
ANSWER: death
[10] Tennyson also wrote, "To strive, to seek, to find, and not to yield" in this poem about the title King of Ithaca. This poem also shares a name with a James Joyce novel.
ANSWER: "Ulysses" <A. Gao, Literature>

20. Answer the following about famous campaign slogans, for 10 points each:
[10] This 28th U.S. President first elected in 1912 ran on the slogan "he kept us out of war" to win reelection in 1916. Ironically, this man entered the war after the sinking of the Lusitania.
ANSWER: Thomas Woodrow Wilson
[10] This man used the slogan "a chicken in every pot, a car in every garage," which Democrats mocked him for in the 1932 election after his poor handling of the Great Depression.
ANSWER: Herbert Clark Hoover
[10] The slogan "Ma, Ma, where's my Pa" was used to mock this president for his illegitimate child. This man also put down the Pullman strike.
ANSWER: Grover Cleveland [or Stephen Grover Cleveland] <A. Gao, History>