

Early Release Introductory Set (ERIS)

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Packet 7

Tossups:

1. **This practice is the subject of the Lutheran belief in sacramental union as well as the Catholic doctrine of trans-substantiation, which holds that the objects used in it physically (*) transform into the body and blood of Christ. For 10 points, what Christian sacrament commemorates the Last Supper by eating bread and wine?**

ANSWER: holy communion [or the Eucharist, or the Lord's Supper] <Farra, Religion>

2. **This country's flag was said to have miraculously fallen from the sky during a battle in Estonia. Prussia invaded this country during a dispute over Schleswig-Holstein, a territory which now lies just over its southern border with (*) Germany. Sweden and Norway formed the Kalmar Union with, for 10 points, what Scandinavian country led from Copenhagen, home to the Danes?**

ANSWER: Denmark [or Danmark] <Rameshbabu, History>

3. **In Sumerian mythology, Utnapishtim is tasked by the god Enki with surviving one of these events. Deucalion and Pyrrha survived one of these events caused by Zeus by building a chest. God creates a (*) rainbow after one of these events in the Bible, during which two of every animal are brought on board Noah's Ark. For 10 points, what sort of event was caused by rain for forty days and forty nights?**

ANSWER: floods [accept deluges] <Gollamudi, Mythology>

4. **This quantity is equal to the square of momentum divided by double the mass. In addition to momentum, elastic collisions conserve this quantity. When an object falls, (*) potential energy is converted into this kind of energy. One-half mass times velocity squared is equal to, for ten points, what type of energy associated with an object's movement?**

ANSWER: kinetic energy [prompt on energy] <Zhang, Science>

5. **In this play, one character answers "No. Saints and poets maybe" in response to a question. The hymn *Blessed Be the Ties that Bind* is sung once each act in this play. Near the end of this play, Emily (*) Webb relives her twelfth birthday after dying during childbirth. The fourth-wall-breaking Stage Manager narrates, for 10 points, what Thornton Wilder play set in Grover's Corners?**

ANSWER: Our Town <Tang, Literature>

6. **This president's "Square Deal" initiative broke up monopolies, and he gave an 84-minute campaign speech in Milwaukee despite being shot just before it. This man became president after the assassination of William (*) McKinley, and he led the Rough Riders during the Spanish-American War. For 10 points, name this president who lends his name to a stuffed bear.**

ANSWER: Theodore Roosevelt [or Teddy Roosevelt, or TR; prompt on Roosevelt alone] <Sarma, History>

7. **Elizabeth I may have used ceruse, one of these products which caused severe lead poisoning with repeated use. One brand of these products called Fenty was launched by Rihanna and designed to be inclusive of people with darker (*) skin tones. Users of these products may use brushes or their fingers to apply foundation. For 10 points, what cosmetic products include lipstick and eyeliner?**

ANSWER: makeup [accept foundation until mentioned; prompt on cosmetics or beauty products] <Sarma, Miscellaneous>

8. **The first black woman with this job, Bessie Coleman, died in a 1926 accident. A man with this job had his son kidnapped by Bruno Hauptmann in the "Crime of the Century." Fred Noonan assisted a (*) woman with this job during a trip in which they both disappeared near Howland Island. The "Spirit of St. Louis" was used by a man with, for 10 points, what job of Charles Lindbergh and Amelia Earhart?**

ANSWER: aviator [or pilot] <Kher, History>

9. **Some speakers of this language add the consonant 'r' to the end of syllables in a process called erhua. This language contains measure words such as "ge" and "zhi", which are used to quantify nouns. During the 20th century, some (*) characters used to write this language were simplified, though the traditional forms are still used in Taiwan. For 10 points, name this language spoken in Beijing.**

ANSWER: Mandarin Chinese [accept either underlined portion or Standard Chinese; accept Guānhuà or Pǔtōnghuà or Guóyǔ or Huáyǔ; do NOT accept or prompt on "Cantonese"] <Gunter, Social Science>

10. **These objects are predicted to lose mass through Hawking radiation. The no-hair theorem states that these objects are described only by their mass, charge, and spin. The Schwarzschild (shvaarts-shilt) radius is the size of the (*) event horizon of these objects, inside which the escape velocity exceeds the speed of light. Massive collapsing stars form, for 10 points, what objects from which light cannot escape?**

ANSWER: black holes <Karpov, Science>

11. **This man's military career began in disaster when his forces killed a neutral French commander at Jumonville Glen, sparking a war. This former aide to Edward Braddock was forced to surrender Fort Necessity. The Conway Cabal failed to depose this general, who later personally put down the (*) Whiskey Rebellion during his presidency. For 10 points, name this commander-in-chief of the Continental Army.**

ANSWER: George Washington <Kang, History>

12. **This country's Darién Gap is a thick section of rainforest impassable by roads which makes it impossible to drive between North America and South America. This country's artificial Lake Gatún was created to serve as the highest point of a (*) waterway which connects the Atlantic and Pacific oceans. For 10 points, name this Central American country which contains a namesake canal.**

ANSWER: Republic of Panama [or República de Panamá] <Stewart, Geography>

13. **This scientist noted differently-shaped beaks adapted to different island environments in a group of finches named for him. This man discovered those birds on a journey aboard the HMS (*) *Beagle* that inspired his treatise *On the Origin of Species*. The Galapagos Islands' ecology was studied by, for 10 points, what naturalist who formulated the theory of natural selection?**

ANSWER: Charles Darwin <Young, Science>

14. **A theme in this novel centers on the repeated disappearance of the donkey Dapple. One character in this novel declares himself to be "the Knight of the White Moon." This novel's title character longs for (*) Dulcinea, rides the horse Rocinante, and has a companion named Sancho Panza. For 10 points, name this novel about an eccentric Spanish man who tilts at windmills, by Miguel de Cervantes.**

ANSWER: Don Quixote [or *The Ingenious Gentleman Don Quixote de la Mancha* or *El Ingenioso Hidalgo Don Quijote de la Mancha*] <Venkateswaran, Literature>

15. **This state contains the highest point in the U.S. east of the Mississippi, its Mount Mitchell. This state shares the Great Smoky Mountains National Park with its western neighbor, (*) Tennessee. This state's Duke University contests a fierce sporting rivalry with its public flagship school. For 10 points, name this southeastern US state with capital at Raleigh.**

ANSWER: North Carolina <McAvoy-Bickford, Geography>

16. **The derivative of a function at a point is this property of a line tangent to the graph at that point. If two lines are parallel, they have the same value for this property, and this property is undefined for (*) vertical lines. Rise over run is equal to, for 10 points, what value which measures the "steepness" of a line on the coordinate plane?**

ANSWER: slope <Karpov, Mathematics>

17. **Vishnu's avatar Hayagriva has this animal's head. Feral populations of this animal live on Assateague Island in Maryland. The height of these animals is often measured in "hands". One of these animals named (*) Secretariat won the Triple Crown of races involving them, which includes the Kentucky Derby. For 10 points, what animals were ridden by cavalry soldiers?**

ANSWER: horses [accept racehorses or warhorses] <McAvoy-Bickford, Miscellaneous>

18. **The tune "Salt Peanuts" was written by one player of this instrument known for puffing his cheeks and playing a bent version of it. In addition to Dizzy Gillespie, this instrument was also played by a musician nicknamed (*) "Satchmo". This was the instrument of the lead artist on the album *Kind of Blue*. Jazz legends Miles Davis and Louis Armstrong played, for 10 points, what high brass instrument?**

ANSWER: trumpets <Kang, Fine Arts>

19. **In one book by this author, Henry commits treason to help the king of the rats, but falls off a cliff and dies when his bat, Ares, fails to save him. This author of *Gregor the Overlander* also wrote a novel in which the protagonist chooses to shoot Elizabeth (*) Coin rather than Coriolanus Snow at a public execution. Katniss Everdeen was created by, for 10 points, what author of *The Hunger Games*?**

ANSWER: Suzanne Collins <Cui, Literature>

20. **Solutions of potassium permanganate, which are this color, can leave lasting stains if exposed to skin. A historically important dye of this color was produced from murex snails. Liquid and gaseous (*)** iodine has this color under standard conditions. The compound '6,6'-dibromoindigo is one dye with, for 10 points, what color which can be produced by mixing blue and red paint?

ANSWER: **purple** [accept any different shades of purple like **violet**; accept **indigo** until "dibromoindigo"; accept **pink** until "murex"; accept **Tyrian purple** or **Imperial purple** or **Phoenician purple**; prompt on **Phoenician red** or **Tyrian red** but do not accept or prompt on "red" alone or on any other colors] <Gollamudi, Science>

Bonuses:

1. The Serbian writer Milorad Pavić (**pah-veech**) wrote a mostly-plotless "lexicon novel" titled for one of these works "of the Khazars". For 10 points each:

[10] Name these works, a satirical "Devil's" one of which was written by Ambrose Bierce. The "Petit Larousse" is a famous French one of these works.

ANSWER: **dictionaries** [accept *The Devil's Dictionary*; accept *Dictionary of the Khazars* or *Hazarski rečnik*]

[10] Henry Black wrote the first two editions of an authoritative dictionary used by people with this profession. In order to become part of this profession, prospective members must pass the "bar exam", for which each state has a different version.

ANSWER: **lawyers** [or **attorneys**; accept anything relating to practicing **law**]

[10] This board game also maintains its own dictionary, which lists all the words which may be played in it. Players in this board game take turns playing tiles on a 15-by-15 board to form words, scoring more points for using rarer letters like the Q and Z.

ANSWER: **Scrabble** <Gjesfjeld, Miscellaneous>

2. The primary goals of this social cause were achieved through the passing of the Volstead Act and the 18th Amendment. For 10 points each:

[10] Identify this social cause which sought to ban the consumption of beverages like beer, rum, and bourbon in the United States.

ANSWER: **temperance** movement [or **prohibitionist** movement; accept **teetotalism**; accept any descriptive answers like **banning alcoholic** drinks]

[10] Carrie Nation, a radical temperance activist, was infamous for violently attacking saloons and bars using one of these weapons to destroy kegs of alcohol.

ANSWER: **hatchets** [or **axes**]

[10] During the prohibition era, this Chicago gangster built an empire on the sale of illegal alcohol, a practice known as bootlegging. Nicknamed "Scarface", this perpetrator of the St. Valentine's Day Massacre would later be jailed at Alcatraz after his conviction for tax evasion.

ANSWER: Al **Capone** [or Alphonse [Gabriel] **Capone**] <Kang, History>

3. Answer the following about gay characters in young adult literature, for 10 points each:

[10] This headmaster of Hogwarts in the *Harry Potter* series had an affair with Gellert Grindelwald. He was murdered by Severus Snape in the sixth *Harry Potter* novel.

ANSWER: **Albus** Percival Brian Wulfric **Dumbledore** [accept either underlined portion]

[10] In the *Percy Jackson* series, Nico di Angelo, a son of this Greek god, is forced by Cupid to come out as gay. This member of the Big Three put Nico and his sister Bianca in the Lotus Hotel.

ANSWER: **Hades**

[10] This author wrote *Two Boys Kissing* and *Boy Meets Boy*, two books featuring gay characters. This author also cowrote *Will Grayson, Will Grayson* with John Green, a book that centers around the fact that a straight boy and a gay boy both share the title name.

ANSWER: David **Levithan** <Young, Literature>

4. This empire's first ruler was Genghis Khan. For 10 points each:

[10] Name this largest contiguous land empire in world history. It stretched from Siberia to Eastern Europe, eventually fracturing into several smaller realms such as the Chagatai Khanate.

ANSWER: **Mongol** Empire [or Ilk **Mongol Uls**]

[10] This grandson of Genghis established the Yuan Dynasty in China, becoming the first non-Han emperor to control all of China after his conquest of the Song Dynasty and accession to the imperial throne.

ANSWER: **Kublai** Khan [or **Hubilai**]

[10] This successor state of the Mongol Empire was founded by Batu Khan and ruled over the steppes of Eastern Europe and Central Asia. It was eventually defeated by Muscovy at the Great Stand on the Ugra River.

ANSWER: the **Golden Horde** [or **Altan Ord**, or **Altun Urda**, or **Ulug Ulus**, or the **Ulus of Jochi**, or the **Kipchak Khanate**; prompt on the **Great Horde**] <Rameshbabu, History>

5. This composer's preludes include *The Girl With the Flaxen Hair*. For 10 points each:

[10] Name this French composer who is best known for pieces like *La mer* and *Clair de lune*.

ANSWER: Claude **Debussy** [or Achille-Claude **Debussy**]

[10] Debussy was influenced by Inayat Khan, a Sufi mystic and musician from this country. Ravi Shankar is a musician who plays the sitar, a traditional instrument from this country, and its classical music is based on the principles of *raga* and *tala*.

ANSWER: **India** [or **Bhārāt**]

[10] Debussy was known for his musical integration of silence, something that was taken perhaps a bit too far by this American minimalist composer in his work *4'33"*, in which the performer sits still for the title amount of time.

ANSWER: John **Cage** <Young, Fine Arts>

6. This city's Eisbach contains standing waves for surfers to practice, despite this city being far inland. For 10 points each:

[10] What capital of Bavaria, located on the River Isar, is noted for its many breweries, such as the 800-year-old Augustiner Keller, as well as its yearly Oktoberfest beer festival?

ANSWER: **Munich** [or **München**]

[10] Munich is located in the southeast portion of this country, whose other cities include Hamburg and Frankfurt. It is the most populous country located entirely in Europe.

ANSWER: Federal Republic of **Germany** [or Bundesrepublik **Deutschland**]

[10] Munich's Nymphenburg Park contains one of these buildings. Elsewhere in Bavaria, Ludwig II built the famous Neuschwanstein (**noy-SHVAAN-shtine**) one of these buildings atop a hill, which remains a popular tourist attraction.

ANSWER: a **castle** [or **schloss**] <McAvoy-Bickford, Geography>

7. In this book, a character named Dolphus Raymond fakes alcoholism. For 10 points each:

[10] Name this book set in Maycomb, Alabama in which Tom Robinson is falsely convicted of raping Mayella Ewell despite the defenses of the lawyer Atticus Finch.

ANSWER: ***To Kill a Mockingbird***

[10] This American author who died in 2016 wrote *To Kill a Mockingbird*.

ANSWER: Harper **Lee**

[10] Lee's friendship with Truman Capote inspired this character in *To Kill a Mockingbird*. This character visits Maycomb every summer from Meridian and quickly becomes friends with Scout and Jem.

ANSWER: **Dill Harris** [or **Charles** Baker Harris; accept any underlined portion] <Young, Literature>

8. Answer some questions about computer components. For 10 points each:

[10] These components were the focus of the race to 5 gigahertz, and can have one or multiple cores. Manufacturers of these components include Intel.

ANSWER: **processors** [accept **central processing units** or **CPUs**]

[10] Primary manufacturers of these components include NVidia and AMD, and later iterations of these components have included hardware-accelerated ray tracing.

ANSWER: **graphics cards** [accept **graphics processing units** or **GPUs**]

[10] Computers use these devices to display things to users. In laptop computers, these screens are typically attached to the rest of the computer, while desktop computers often have separate versions.

ANSWER: **monitors** <Karpov, Science>

9. In a dispute over where to build this city, its eventual founder claimed to have seen twelve auspicious birds to his brother's six. For 10 points each:

[10] Name this city in modern-day Italy, named for the brother of Remus. It eventually became the center of an empire whose gods included Jupiter, Mars, and Pluto.

ANSWER: **Rome**

[10] Romulus and Remus were legendarily raised by one of these creatures, who were honored in the festival of Lupercalia.

ANSWER: a female **wolf** [accept **wolves**]

[10] After Romulus and Remus were abandoned on the banks of this river, its god saved them. This third-longest river in Italy flows through Rome.

ANSWER: the **Tiber** river [accept **Tiberinus**] <Gollamudi, Mythology>

10. The current holder of this position, Tenzin Gyatso, is one of only two living people who were heads of state during World War II. For 10 points each:

[10] Name this position held by the spiritual leader of Tibetan Buddhism, currently occupied in exile in Dharamsala, India due to oppression by the Chinese government.

ANSWER: **Dalai Lama**

[10] Tibetan Buddhists often worship by repeatedly chanting these sacred phrases, which include "om mani padme hum".

ANSWER: **mantras** [or **sngags**]

[10] Tibetan Buddhists are split into schools named after "Red" and "Yellow" types of these garments. Muslims often wear one of these garments called a *taqiyah* during prayer.

ANSWER: **hats** [accept specific types of hats like **skullcaps**] <Sethi, Religion>

11. In Parkinson's disease, the body produces lower amounts of this neurotransmitter. For 10 points each:

[10] Name this neurotransmitter often associated with pleasure and emotional highs. Anticipation of rewards increases the amount of this chemical in the brain.

ANSWER: **dopamine**

[10] This other neurotransmitter is believed to play major roles in mood and appetite, among other things. Its reuptake is inhibited by SSRIs.

ANSWER: **serotonin**

[10] SSRIs are often prescribed to treat this mental health condition which may be caused by a lack of serotonin. It can cause low self-esteem, a prolonged lack of happiness, or a loss of interest in previously enjoyable activities.

ANSWER: clinical **depression** [or **major depressive disorder** or **MDD**] <Gollamudi, Science>

12. For 10 points each, answer the following about unusual self-portraits.

[10] This man depicted himself with the title features in his *Self-Portrait with Seven Fingers*. He depicted a burning synagogue in his depiction of the Crucifixion, and his most famous work, *I and the Village*, was inspired by a village in Belarus.

ANSWER: Marc **Chagall**

[10] This man depicted himself thrice in his *Triple Self-Portrait*. He also painted for the *Saturday Evening Post*, and depicted Ruby Bridges walking to school escorted by National Guardsmen in *The Problem We All Live With*.

ANSWER: Norman **Rockwell**

[10] Rockwell also created a series of paintings depicting this many freedoms. In another unusual self-portrait, Belgian surrealist René Magritte painted himself with this many arms, two more than the usual number.

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

13. This number is so large that if a perfectly efficient computer the size of the Earth were to store its value, it would collapse into a black hole. For 10 points each:

[10] Identify this number equal to the value of an extremely large exponentiation tower, which was popularized in a 1977 column by Martin Gardner, at which point it was the largest number ever used in a serious mathematical proof.

ANSWER: **Graham's** number

[10] Graham's number is the upper bound to a problem from Ramsey theory, a subfield of graph theory which involves doing this process to graphs in certain ways. A famous computer-assisted proof by Haken and Appel showed that any map can have this process done to it with only four different labels.

ANSWER: graph **coloring**

[10] Specifically, the problem asked for the smallest dimension n in which a complete graph on the vertices of an n -dimensional hypercube, if each edge were colored red and blue, must contain a mono-colored one of these shapes. These shapes have four equal sides and four right angles.

ANSWER: **squares** [prompt on rectangles or quadrilaterals] <Sethi, Mathematics>

NOTE TO MODERATORS: DO NOT REVEAL ALTERNATE ANSWERS TO THE FIRST BONUS PART.

14. Over 250 of these things are currently being stored in Moses Lake, Washington. For 10 points each:

[10] Name these things which were withdrawn from service worldwide in March 2019 following two deadly accidents in 6 months caused by a faulty MCAS system which the manufacturer of these things failed to mention in their manuals.

ANSWER: **737 MAX** airplanes [prompt on airplanes or passenger airplanes or 737 airplanes; accept but DO NOT OTHERWISE REVEAL answers like **Boeing 737 MAX**]

[10] This American aircraft manufacturer founded in Seattle produces the 737 MAX. Their primary competitor is Airbus, and their other planes include the double-decker 747.

ANSWER: **Boeing**

[10] A recent Boeing 737 crash that was *not* caused by manufacturing faults, meanwhile, occurred in January 2020 when Ukraine International Airlines flight 752 was shot down shortly after departing from Tehran, the capital of this country, by its military.

ANSWER: Islamic Republic of **Iran** <Singh, Current Events>

15. Answer the following about oceanic trenches, for 10 points each:

[10] Ocean trenches are formed by this geological process, in which one tectonic plate slides under another at a convergent plate boundary.

ANSWER: **subduction**

[10] The regions near subduction zones often contain large numbers of this type of mountain, examples of which include Mount St. Helens in Washington and Kilauea in Hawaii. These mountains typically eject large amounts of magma when they erupt.

ANSWER: **volcanoes**

[10] These other undersea formations are caused by volcanic activity, usually at divergent plate boundaries. They may form "black smokers" or "white smokers", and release warm, nutrient-rich water through the seabed, creating habitats for animals like the giant tube worm.

ANSWER: **hydrothermal vents** [prompt on thermal vents] <Sethi, Science>

16. Isaac Newton first formulated a universal law of this force. For 10 points each:

[10] Name this force whose magnitude is equal to the product of the masses of two objects, times a namesake constant, divided by the square of the distance between them.

ANSWER: **gravity** [accept word forms like **gravitation**]

[10] A common system involving Newton's laws of gravitation is a problem involving this many bodies orbiting each other. Newton also formulated this many laws of motion.

ANSWER: **three**

[10] Lagrange found special cases of the three-body problem in which the bodies could exist in stable or unstable versions of this state. When the net force on an object is zero, it's in this state.

ANSWER: **equilibrium** <Sarma, Science>

17. This prime minister was nicknamed "Milk Snatcher" after cutting school meal benefits. For 10 points each:

[10] Name this first female European Prime Minister who was almost killed in an IRA bombing in Brighton.

ANSWER: Margaret **Thatcher**

[10] Thatcher was the prime minister of this country, whose regions include Wales and Scotland and which has also been led recently by David Cameron.

ANSWER: **United Kingdom** of Great Britain and Northern Ireland [accept the **UK** or Great **Britain**; do NOT accept or prompt on "England"]

[10] Thatcher successfully ended a nationwide strike of people in this profession led by Arthur Scargill. This profession was concentrated in northern England and the Welsh mountains, and is also common in the U.S. in states like West Virginia.

ANSWER: **coal mining** [accept word forms; prompt on mining by asking "for what resource?"] <Cui, History>

18. In this movie, the main character kills his girlfriend after a Ferris wheel breaks down. For 10 points each:

[10] Name this 2017 movie adaptation of a manga and anime series about Light Turner finding a book with the power to kill.

ANSWER: **Death Note**

[10] The *Death Note* adaptation was headed by this streaming service after they bought the rights to the movie from Warner Bros. This streaming service's first original TV series, *House of Cards*, achieved widespread popularity.

ANSWER: **Netflix**

[10] In summer 2020, Netflix brought this animated series to its online streaming services. This series depicts Aang (**rhymes with "bang"**), who has the power to perform four different kinds of magic.

ANSWER: *Avatar*: **The Last Airbender** [or **ATLA**; prompt on *Avatar* alone] <Sarma, Popular Culture>

19. Aristotle tutored this man, who died in Babylon at age 32, leaving his empire to be split among the Diadochi. For 10 points each:

[10] Name this king of Macedon who built an empire spanning from Greece to India. He named many cities after himself, including one in Egypt home to a famous lighthouse.

ANSWER: **Alexander the Great** [or **Alexander III** of Macedon, or **Alexandros ho Megas**, or **Alexandros III** ho Makedon; prompt on Alexander or Alexandros]

[10] This man was Alexander the Great's father. He was assassinated by one of his bodyguards and led the League of Corinth.

ANSWER: **Philip II** of Macedon [or **Philippos II** ho Makedon; prompt on Philip]

[10] In the Battles of Issus and Gaugamela, Alexander defeated Darius III, the ruler of this large empire centered on modern-day Iran.

ANSWER: the First **Persian** Empire [or the **Achaemenid** Empire, or **Xšāça**] <Cui, History>

20. This collection includes tales told by the Pardoner and the Nun's Priest. For 10 points each,

[10] Name this collection in which pilgrims tell stories on a pilgrimage to the tomb of Thomas Becket.

ANSWER: *The **Canterbury Tales***

[10] This British author wrote *The Canterbury Tales* and was a contemporary of Giovanni Boccaccio.

ANSWER: Geoffrey **Chaucer**

[10] This character in *The Canterbury Tales* tells a tale about Arcite and Palamon, who both fall in love with Emily upon seeing her. This character's tale follows the work's general prologue.

ANSWER: the **Knight** <Young, Literature>