



2016 Washington/Hickman Academic Questionfest (WHAQ)

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Trindade) Teams

Packet 4

**Tossups**

1. **In this novel, Moses claims that there are seven Sundays a week in Sugarcandy Mountain. In this book, Mr. Pilkington and Mr. Frederick help Mr. Jones to fight the Battle of the Cowshed. Near the end of this novel, Benjamin fails to rescue a character whose personal motto is “I will (\*) work harder!”** In this book, the lovable Boxer is sent to “retirement” at a glue factory. In this novel, Stalin and Trotsky are represented by the pigs Napoleon and Snowball. For 10 points, name this allegorical novel by George Orwell.

ANSWER: *Animal Farm* <Sherry Xie>/<ed. Jacob>

2. **According to the Roman historian Quintus Curtius Rufus, this ruler dragged the governor Batis to death behind his chariot, imitating Achilles. This man allied with Taxiles to defeat the Paurava kingdom at the Battle of the Hydaspes River. This man's sudden death led to a civil war between his generals and successors, the (\*) Diadochi (“Dee-ah-doh-kee”).** This ruler built mounds of dirt in order to bypass Gaza's walls. He defeated the Persian king Darius III at the battles of Gaugamela and Issus. For 10 points, name this son of Philip II of Macedon, the namesake of an Egyptian city.

ANSWER: **Alexander the Great** [or **Alexander III** of Macedon; prompt on Alexander] <Cole Phinney>/<ed. Jacob>

3. **An eleven-inch high limestone statue of a voluptuous woman is said to depict this figure “from Willendorf.” A Diego Velazquez painting shows this figure lying on a bed with a ribboned mirror propped up in front of a red curtain. A different depiction shows this figure reclining while looking directly at the viewer, with a small (\*) dog at the foot of the bed.** That painting of this goddess “of Urbino” was made by Titian. A depiction of this figure shows her standing on a seashell as she emerges from the sea. For 10 points, name this Roman goddess, whose birth was painted by Botticelli.

ANSWER: **Venus** [or **Venus** of Urbino; or **Venus** of Willendorf; prompt on Aphrodite until “Roman” is read] <Wenzer Qin>/<ed. Jacob>

4. **The location where this event happened was named for the heartbeat of the owner's brother. One person involved in this event held a door closed and unintentionally prevented others from escaping. The perpetrator of this event called (\*) 911 and pledged allegiance to ISIS prior to the event. That perpetrator of this event was Omar Mateen. For 10 points, name this 2016 event which ended with 49 dead victims, the deadliest mass shooting in US history.**

ANSWER: Orlando nightclub Shooting [or Pulse nightclub Shooting; or similar answers, such as "attack" or "massacre"] <Jonathan Amlong>/<ed. David Dennis>

5. **A "potential" named for this substance can be measured by a Scholander pressure bomb. Photooxidation of this molecule by the oxygen-evolving complex requires manganese and calcium cofactors. The ascent of sap in trees is explained by the "cohesion-tension" theory of how this substance travels through the (\*) xylem. Vasopressin or ADH allows more of this substance to be absorbed in the collecting ducts in the kidneys. When plant cells lack this molecule, it may cause turgor loss. For 10 points, name this triatomic molecule with chemical formula H<sub>2</sub>O.**

ANSWER: Water [or H<sub>2</sub>O before it is mentioned] <Wenzer Qin>/<ed. David Dennis>

6. **A form of this deity was represented as a youth with a lock of hair on the right side of his head and was known to the Greeks as Harpocrates. This god's severed hands are retrieved by a fish-trap used by the crocodile god, Sobek. This god's four sons are the protectors of the cardinal directions and the guardians of canopic jars. This deity tricked another god into using a (\*) boat made out of stone, while he used a wooden ship. The moon was represented by this god's left eye, the wadjet. For 10 points, name this falcon-headed Egyptian god, the son of Isis and Osiris.**

ANSWER: Horus [or Hor; or Har; or Her; or Heru; or Horus the Younger; or Harpocrates until it is read] <Joe Stitz>/<ed. Jacob>

7. **One type of this process that uses a base, an alcohol, iodine, and sulfur dioxide was invented by Karl Fischer, and is used to measure trace amounts of water in a sample. The Winkler Method uses this technique to determine levels of dissolved oxygen in a sample. On graphs that plot pH versus volume during this process, an (\*) inflection point indicates the actual equivalence point, and can be estimated with a color-changing indicator such as phenolphthalein. For 10 points, name this process which can be used to determine the concentration of an unknown substance.**

ANSWER: Titration [or volumetric analysis] <Wenzer Qin>/<ed. David Dennis>

8. **This player got his first start due to a hit by Mo Lewis injuring then-starting quarterback Drew Bledsoe. In 2009, this player set an NFL record by throwing 5 touchdown passes in one quarter of a game. In 2008, injuries led to this man being replaced by Matt Cassel, who led the team to an 11-5 record but no postseason berth. This player was the first quarterback in NFL history to throw (\*) 50 touchdowns in a season. This player was recently accused of instructing equipment managers to deflate footballs before the 2015 AFC Championship. For 10 points, name this quarterback for the New England Patriots.**

ANSWER: Tom Brady [Thomas Edward Patrick Brady Jr.] <Cole Phinney>/<ed. Sean>/<ed. Jacob>

9. **The Direct Tax that this man signed led to a rebellion of German-Americans led by John Fries (“Freeze”). This man declared that “facts are stubborn things” while defending Captain Preston and the other British soldiers involved in the Boston Massacre. He seconded a motion by Richard Henry Lee at the Second (\*) Continental Congress to force the vote on independence. This Federalist fought the Quasi-War with France and signed the Alien and Sedition Acts. He died within hours of Thomas Jefferson. For 10 points, name this second president of the United States.**

ANSWER: **John Adams** [prompt on Adams; do NOT accept “John Quincy Adams” or “John Q. Adams”] <Jacob O’Rourke>

10. **The poem “Le balcon” was inspired by this poet’s muse, whom he often referred to as “Black Venus.” A poem by this lover of Jeanne Duval compares the poet to a creature that is called a “prince of cloud and sky.” The creatures of that poem by this author are mocked for having “great white wings” that “drag beside them like oars” by the crew of a ship. This poet of “The (\*) Albatross” addresses a “hypocritical reader” in the opening of a collection that includes “Wine” and “Spleen and Ideal.” For 10 points, name this French poet of the collection *The Flowers of Evil*.**

ANSWER: Charles **Baudelaire** [Charles-Pierre **Baudelaire**] <Wenzer Qin>/<ed. Jacob>

11. **This man argued in one of his works that guilt over the killing of a relative of Akhenaten in the wilderness inspired Judaism. This man argued that the interaction of thanatos and libido produced all the variations of human activity. This author of *Beyond the Pleasure Principle* vividly described (\*) Irma’s Injection in another one of his books, and he developed the distinctions between the id, ego, and superego. For 10 points, name this Austrian author of *Civilization and its Discontents* and *The Interpretation of Dreams*. who founded psychoanalysis.**

ANSWER: Sigmund **Freud** [or Sigismund Schlomo **Freud**] <Sherry Xie>/<ed. David Dennis>

12. **In a play by this author, a low-flying plane repeatedly interrupts the conversation of Nancy and Charlie, who explain concepts like love and evolution to the humanoid lizards Leslie and Sarah. This author of *Seascape* also wrote a play in which Jerry impales himself on a knife held by Peter near a bench at Central Park. In a play by this author of *Zoo Story*, a main character is informed that his imaginary (\*) son died after swerving to avoid a porcupine. In that play by this author, Nick and Honey play “Get the Guest” at George and Martha’s house. For 10 points, name this American playwright of *Who’s Afraid of Virginia Woolf?***

ANSWER: Edward **Albee** [Edward Franklin **Albee** III] <Amanda Sun>/<ed. Jacob>

13. **This number is the upper bound for the absolute value of iterates in the Mandelbrot set. For a finite set, the cardinality of its power set is equal to this number raised to the power of the cardinality of the original set. This is the Euler characteristic for convex polyhedra, meaning the number of vertices minus the number of edges plus the number of faces is equal to this number. Mersenne primes are one less than a (\*) power of this number. This is the degree of a polynomial that can be solved with the quadratic equation. For 10 points, name this number, the base of the binary system.**

ANSWER: **Two** [or **2**] <David Dennis>/<ed. Seth Ebner>

14. **This figure is taught how to create chainmail by God in the Qu’ran. This man gave 200 enemy foreskins to his father-in-law to earn Michal’s (“mahy-kuhl’s”) hand in marriage. This man was admonished by Nathan after ordering for (\*) Uriah the Hittite to be placed in the front lines to die so that he could marry Bathsheba. While a youth, this author of many of the Psalms used his slingshot to defeat a giant Philistine near the Valley of Elah. For 10 points, name this second King of Israel who slayed Goliath.**

ANSWER: King David [or Dawud] <Sophia Johnson>/<ed. Jacob>

15. **The American journalist Amy Goodman was beaten by soldiers of this country while attempting to protect protesters during the Santa Cruz Massacre. A president of this country attempted to bring “Guided Democracy” to this country. This country’s communist party, the PKI, was blamed for the failed 30th of September coup against its first president. This country was where the General (\*) Suharto overthrew Sukarno, and it invaded neighboring East Timor. For 10 points, name this most populous Muslim country in the world, an archipelago with a capital at Jakarta.**

ANSWER: Indonesia [Republic of Indonesia; or Republik Indonesia] <Cole Phinney>/<ed. Jacob>

16. **A character in this novel is shocked to see students at Eton laughing at footage of Christians who punish themselves with whips. In this novel, people are indoctrinated by hypnopaedia with phrases such as “civilization is sterilization.” This novel describes the people-creating Bokanovsky process and the consumption of (\*) soma. In this novel, the World Controller Mustapha Mond exiles Bernard Marx, who introduces John the Savage to civilization. For 10 points, name this dystopian novel set in the year 632 After Ford, which was written by Aldous Huxley.**

ANSWER: Brave New World <Sophia Johnson>/<ed. Jacob>

17. **One island in this river hosts the Mouse Tower, named for the rats that supposedly devoured the Bishop Hatto. A legendary female figure on this river lures sailors to crash into the Lorelei Rock. Liechtenstein’s capital of Vaduz is found on the upper reaches of this river, which later flows through Lake Constance. This river meets the Moselle in (\*) Koblenz and separates Baden-Wurtemberg from Alsace. For 10 points, name this European river that flows from Switzerland to the Netherlands and forms the border between France and Germany.**

ANSWER: Rhine River <Alex Harmata>/<ed. Chris Chiego>

18. **This man’s government abolished peacetime flogging in the Cardwell reforms for the military. This man introduced the secret ballot and attacked Ottoman-perpetrated atrocities in his pamphlet about the “Bulgarian Horrors.” This man’s government was blamed for the death of “Chinese” (\*) Gordon at Khartoum, and he failed to pass two bills to guarantee Irish Home Rule. For 10 points, name this British Liberal Prime Minister and long-time rival of Benjamin Disraeli.**

ANSWER: William Gladstone [William Ewart Gladstone] <Joe Stitz>/<ed. Jacob>

19. **This piece opens with pianissimo string tremolos of an open fifth and resembles an orchestra tuning. This work's final movement features a scherzo in 6/8 time and is a “Turkish March”. In this piece’s last movement, the tubas carry a theme that is then given to voices in (\*) “Freude, Schoner Gotterfunken.”** This symphony’s composer used text from Friedrich Schiller’s, “Ode to Joy.” For 10 points, name this last symphony by Beethoven, which is nicknamed for its use of voices.

ANSWER: **Beethoven’s Symphony No. 9** in D Minor [or just **9** after Beethoven is read; or the **“Choral” Symphony**] <Joe Stitz>/<ed. David Dennis>

20. **The earliest evidence for the existence of these particles was discovered at the Stanford Linear Accelerator Center and they were first theorized by Zweig and Gell-Mann. The fact that these particles can never be seen in isolation is known as color confinement. These particles have electric charge equal to either two-thirds times the elementary charge or negative one-third times the elementary charge. These particles are bound together by (\*) gluons and three of them can be found inside of every proton and neutron. Strange, charm, top, bottom, up, and down are the six flavors of these particles.** For 10 points, name these elementary subatomic particles.

ANSWER: **quarks** <Wenzer Qin>/<ed. Jake Sundberg>

Tiebreaker

**One opposition icon in this country is “the Lady in Red.” In this country, former Chief of the General Staff Ilker Basbug was sentenced to life imprisonment in the Ergenekon trials, but that was overturned less than a year later. An uptick in terrorist violence in this country started in late 2015 with several car bomb attacks followed by a major attack on the capital’s (\*) airport. An estimated 300 people were killed and over 2,000 injured in this country when citizens took to the streets en masse to confront supposed “Gulen” movement forces in July 2016.** For 10 points, name this country led by Recep Tayyip Erdogan.

ANSWER: **Turkey** [Republic of **Turkey**; or **Turkiye** Cumhuriyeti] <David Dennis>

## **Bonuses**

1. Famous craftsmen of this instrument include Guarneri, Amati, and Stradivari. For 10 points each:

[10] Name this instrument with strings tuned to G, D, A, and E. Famous virtuosos of this instrument include Hilary Hahn and Joshua Bell.

ANSWER: **Violin**

[10] This Israeli-American violinist contracted polio at age four, and now plays seated as a result. He is known for his work on film scores such as *Memoirs of a Geisha*.

ANSWER: Itzhak **Perlman**

[10] Perlman is also known for performing the main musical theme for this Steven Spielberg film, in which a German businessman rescues Polish-Jewish refugees by employing them in his factories.

ANSWER: **Schindler's List** <Wenzer Qin>/<ed. David Dennis>

2. In Nahum Tate's version of the play she appears in, this character rules the kingdom after she marries Edgar. For 10 points each:

[10] Name this youngest daughter of a title Shakespearean king, who is banished after telling her father that she loves him "according to my bond; no more nor less."

ANSWER: **Cordelia**

[10] Cordelia is the daughter of this title king of a Shakespeare play, who divides his kingdom between Goneril and Regan.

ANSWER: King **Lear**

[10] This character in *King Lear* is omitted from Tate's version of the play. This character mistakes Tom O'Bedlam for a spirit and repeatedly calls Lear a "nuncle."

ANSWER: King Lear's **Fool** [or Lear's court **jester**] <Joe Stitz>/<ed. Jacob>

3. In the not-too-distant future, next Sunday, A.D., there is a guy named Joel, not too different from you or me. For 10 points each:

[10] Name this TV show featuring a man and two robots making fun of bad movies that started on KTMA-23 in Minneapolis/St. Paul on Thanksgiving in 1988.

ANSWER: **Mystery Science Theater 3000** [or **MST3K**]

[10] This crowdfunding platform and website was used by Joel Hodgson, the first host of MST3K, to announce a drive to re-start the franchise in November of 2015.

ANSWER: **Kickstarter** [or **Kickstarter.com**]

[10] This entertainment company announced in July 2016 that there would be 14 new episodes of the show, starring Felicia Day and Patton Oswalt. This company's original shows include *Jessica Jones* and *Luke Cage*.

ANSWER: **Netflix** <David Dennis>/<ed. Sean>/<ed. Jacob>

4. Answer the following about corruption in state governments. For 10 points each:

[10] This state was where governor George Ryan declared a moratorium on the death penalty. This state's former governor Rob Blagojevich (“**Bluh-goy-uh-vihch**”) tried to sell Barack Obama's Senate seat in 2008.

ANSWER: **Illinois**

[10] This state was home to a politician who proposed to make “Every Man a King” with his Share Our Wealth program. That governor of this state, Huey Long, was assassinated in 1935.

ANSWER: **Louisiana**

[10] This state's “three governors” controversy began after Herman Talmadge was elected as governor, Melvin Thompson claimed the governor's office and Ellis Arnall refused to leave office.

ANSWER: **Georgia** <Dinis Trindade>/<ed. Jacob>

5. With his son, this man escaped his employer by making wings that were held together by wax. For 10 points each:

[10] Name this inventor, who escaped from Minos after building the labyrinth. His son Icarus drowned after flying too close to the sun during their escape attempt.

ANSWER: **Daedalus**

[10] Minos angered this god after he refused to sacrifice a white bull. With the help of Aphrodite, this god of the sea caused Pasiphae to fall in love with a bull, resulting in the birth of the Minotaur.

ANSWER: **Poseidon**

[10] In one myth, Daedalus pushed this nephew of his off of a cliff after this man invented the saw. Athena turned this man into a partridge in order to prevent his death.

ANSWER: **Perdix** [or **Talus**; or **Calos**] <Dinis Trindade>/<ed. Jacob>

6. According to this poem, the peers of the narrator threw “potato salad” at “CCNY lecturers on Dadaism.” For 10 points each:

[10] Name this Beat poem that begins “I saw the best minds of my generation destroyed by madness.”

ANSWER: “**Howl**”

[10] “Howl” was written by this Beat poet, who asked Walt Whitman “which way does your beard point” in “A Supermarket in California.”

ANSWER: Allen **Ginsberg** [Irwin Allen **Ginsberg**]

[10] The speaker of this poem by Ginsberg notes how it is “strange now to think of you gone.” This elegy for Ginsberg's mother Naomi is titled for a Jewish prayer for the dead.

ANSWER: “**Kaddish**” <Sherry Xie>/<ed. Jacob>

7. New York governor William Cosby arrested the owner of one of these institutions, resulting in the 1735 Zenger trial. For 10 points each:

[10] Name these publications, which run text like “Mandela goes free today” as their headlines.

ANSWER: **Newspapers** [or **Newspaper** companies]

[10] Pulitzer’s *New York World* and Hearst’s *New York Journal* used this practice of sensationalizing stories, such as the sinking of the *USS Maine*, to sell more papers.

ANSWER: “**Yellow Journalism**”

[10] Due to having to rely on the reporting of Arthur Sears Felming, the *Chicago Tribune* ran this front page headline that incorrectly reported the results of the 1948 presidential election.

ANSWER: “**Dewey Defeats Truman**” <Cole Phinney>/<ed. Jacob>

8. A lake in this state cannot support fish, but abundant brine shrimp and flies allow for a robust ecosystem. For 10 points each:

[10] Name that state, home to the aforementioned Mono Lake, which was featured in Westerns like *High Plains Drifter*. This state also contains the volcanically active Lassen Peak.

ANSWER: **California**

[10] South of Mono Lake stands Mount Whitney, the highest peak of this mountain range and the entire contiguous United States. This mountain range also includes Yosemite National Park.

ANSWER: **Sierra Nevada** [or the **Sierra Nevadas**]

[10] California is also home to many examples of this type of biome, a shrubland shaped by a dry, “Mediterranean” climate and frequent wildfires. The Channel Islands contain this biome.

ANSWER: **chaparral** [or **chaco**; or **matorral**] <Alex Harmata>/<ed. Chris Chiego>

9. The Strecker synthesis produces these compounds. For 10 points each:

[10] Name these building blocks of proteins. Examples include cysteine and lysine, and they are held together by peptide bonds.

ANSWER: **Amino acids**

[10] This amino acid’s side chain forms a pyrrolidine (“**py-ROH-li-deen**”) ring with its nitrogen atom. It is the only biological amino acid with a secondary amine.

ANSWER: **proline**

[10] Proline is hydroxylated in this most abundant protein in mammals. This protein is the main component of connective tissue.

ANSWER: **collagen** <Alex Harmata>/<ed. David Dennis>

10. Some works by this artist include a series of replica *Brillo Boxes* and a room full of floating metallic pillows called *Silver Clouds*. For 10 points each:

[10] Name this American pop artist known for his Campbell’s soup cans.

ANSWER: Andy **Warhol** [or Andrew **Warhola**]

[10] Warhol commonly employed this technique to make series of almost identical paintings, including portraits of Mao Zedong and the previously mentioned soup cans.

ANSWER: **silk screening** [or **screen printing**]

[10] Warhol also made a silkscreen series of this actress in a namesake *Diptych* and used the same image in a *Gold* painting. Her birth name was Norma Jeane Mortenson.

ANSWER: Marilyn **Monroe** <Wenzer Qin>/<ed. Seth Ebner>



11. Science wouldn't be science if it didn't prove itself wrong. For 10 points each:

[10] Nicolaus Copernicus is renowned for positing that the universe was centered around this object instead of the Earth, as Ptolemaic thought had previously suggested.

ANSWER: the sun [or Sol]

[10] This fire-like substance was allegedly found in combustible materials and was lost to the environment as they burned. The theory of this substance was inconsistent with the fact that magnesium gains mass as it burns.

ANSWER: phlogiston

[10] This doubly-eponymous experiment attempted to detect the existence of the luminiferous ether, which had been proposed to explain the propagation of light through space. However, this experiment showed that the speed of light is orientation-independent.

ANSWER: Michelson-Morley experiment <Alex Harmata>/<ed. Seth Ebner>

12. A member of this group put up an anti-Catholic poster in the bedroom of Francis I in the Affair of the Placards. For 10 points each:

[10] Name this religious group, which was guaranteed freedom of worship in the Edict of Nantes. Gaspard de Coligny was murdered during a massacre of these people.

ANSWER: Huguenots [or French Protestants]

[10] This first Bourbon King of France was assassinated by Francois Ravailac. He guaranteed the rights of Huguenots in the Edict of Nantes.

ANSWER: Henry IV [or Henry of Navarre; or Henry III of Navarre; prompt on Henry]

[10] Upon converting to Catholicism, Henry IV declared that this city "is well worth a mass." The St. Bartholomew's Day Massacre also occurred in this French capital city.

ANSWER: Paris [or Lutetia] <Cole Phinney>/<ed. Jacob>

13. The narration of this novel is often interrupted to discuss its author's deterministic theory of history. For 10 points each:

[10] Name this novel, whose protagonist believes he is destined to kill Napoleon after seeing the Battle of Borodino. This novel ends with Pierre Bezukhov marrying Natasha Rostov.

ANSWER: War and Peace [or Voyna i mir]

[10] This Russian author of *War and Peace* also wrote a novel in which the title character loves Count Vronsky in *Anna Karenina*.

ANSWER: Leo Tolstoy [Lev Nikolayevich Tolstoi]

[10] In this Tolstoy novella named for a Beethoven piece, Pozdnyshev kills his wife after he finds her alone with a violinist.

ANSWER: "The Kreutzer Sonata" [or Kreitzerova Sonata] <Carrie Derner>/<ed. Jacob>

14. For 10 points each, answer these questions about the end times in various religions.

[10] Martin Luther moved this Biblical book, along with Hebrews, James and Jude, to the end of the Luther Bible. In this book, the seven seals are opened and the four horsemen descend.

ANSWER: Book of **Revelation** [Do not accept “Revelations”]

[10] This figure is in Occultation, according to a namesake branch of Islam. He will reappear during Jesus’ Second Coming and rid the world of the Antichrist before the Day of Judgment.

ANSWER: **Twelfth Imam** [or the **Mahdi**]

[10] In this religion’s eschatology, the actions of the Saoshyant resurrect the dead before the chief deity eliminates evil in its apocalypse, which is called Frashokereti.

ANSWER: **Zoroastrianism** [or **Zarathustrism**; or **Parsiism**; or **Mazdayasna**; or **Magianism** <Sophia Johnson>/<ed. Jacob>

15. Answer the following about the physics of slinkies. For 10 points each:

[10] A slinky is one of these coiled objects that stores mechanical energy. These devices’ namesake constant has units of Newtons per meter.

ANSWER: **springs**

[10] Springs obey this law which states that the restoring force exerted by a spring is proportional to its displacement from equilibrium.

ANSWER: **Hooke**’s law

[10] The angular frequency of a slinky-tennis ball system is equal to what function of the quotient of the spring constant and mass of the ball?

ANSWER: **square root** [or **1/2 power**] <Wenzer Qin>/<ed. Seth Ebner>

16. This leader converted a high school into the s21 (“**s-twenty-one**”) prison. For 10 points each:

[10] Name this man, who called himself “Brother Number One” while leading the Khmer Rouge. (“**Kuh-mair roozh**”)

ANSWER: **Pol Pot** [Saloth **Sar**]

[10] Pol Pot’s Khmer Rouge led this country from 1975 to 1979. This country is also the home to the ruins of Angkor Wat.

ANSWER: **Cambodia** [or **Kampuchea**; or Kingdom of **Cambodia**; or Preahreacheanachakr **Kampuchea**]

[10] This former King of Cambodia was overthrown by Lon Nol, who was then overthrown by Pol Pot. This king abdicated for a second and final time in 2004 in favor of his son Sihanoni.

ANSWER: Norodom **Sihanouk** [Preah Bat Samdech Preah Norodom **Sihanouk**; prompt on **Norodom**] <Cole Phinney>/<ed. Jacob>

17. An actor talking to the audience through this window is known as breaking the fourth wall. For 10 points each:

[10] This is the name given to the “window” of a regular “picture box” stage design. This type of stage usually features a namesake “arch” over top, and may have an area in front called an “apron.”

ANSWER: **Proscenium**

[10] This alternative stage design has a portion of the stage that comes out into the audience. Seating is on on three sides of this stage, with the fourth side serving as a backdrop.

ANSWER: **Thrust** stage

[10] At this theater associated with Shakespeare, a thrust stage came out to the “yard” where “groundlings” would pay 1 cent to watch a show.

ANSWER: **Globe** Theater <David Dennis>

18. Carbon and its compounds can make some cool shapes. For 10 points each:

[10] These sp<sup>2</sup> hybridized “pipes” can be millions of times longer than they are wide, allowing for unique electrical properties.

ANSWER: carbon **nanotubes**

[10] Nanotubes are a essentially rolled-up version of this material, a single layered honeycomb lattice of carbon. It can be isolated using the “Scotch Tape” technique.

ANSWER: **graphene** [do NOT accept or prompt on “graphite”]

[10] This spherical allotrope of carbon is formed by a network of 60 atoms resembling a soccer ball. It derives one of its names from the designer of the geodesic dome.

ANSWER: **buckminsterfullerenes** [or **buckyballs**] <Alex Harmata>/<ed. David Dennis>

19. Clara Phelps breaks down into tears after this character recites “Dover Beach,” to the disgust of his wife, Mildred. For 10 points each:

[10] Name this character, a firefighter who kills Captain Beatty and is followed by the Mechanical Hound.

ANSWER: **Guy** Montag [or Guy **Montag**]

[10] Guy Montag is the protagonist of this novel, which is titled for the temperature at which its author believed that books burn.

ANSWER: **Fahrenheit 451**

[10] *Fahrenheit 451* was written by this author. This author also wrote about Douglas Spaulding’s summer in Green Town, Illinois in *Dandelion Wine*.

ANSWER: Ray **Bradbury** [Ray Douglas **Bradbury**] <Carrie Derner>/<ed. Jacob>

20. Answer the following about Immanuel Kant. For 10 points each:

[10] In an essay, Kant defined this concept as “man’s emergence from his self-imposed immaturity.” Diderot and Voltaire were representatives of this 18th-century movement.

ANSWER: **Enlightenment** [or *What is Enlightenment?*; or *Asking the Question: What is Enlightenment?*; or **Aufklärung**; or *Beantwortung der Frage: Was ist Aufklärung?*]

[10] Kant credited this Scottish philosopher with waking him from his “dogmatic slumber.” This philosopher included the section “Of Miracles” in *An Enquiry Concerning Human Understanding*.

ANSWER: David **Hume**

[10] Kant developed this principle in his *Groundwork on the Metaphysics of Morals*. In this ethical concept, actions are only moral if their maxims could become universal laws.

ANSWER: **categorical imperative** [or **kategorischer imperativ**] <Sophia Johnson>/<ed. Jacob>

Extra

This creature was later turned into a constellation after being caught in a paradox. For 10 points each:

[10] Name this dog from Greek mythology that was destined to catch any prey she pursued. To solve the paradox, Zeus would eventually turn her into Canis Major.

ANSWER: **Laelaps**

[10] Laelaps was caught in a paradox when Amphitryon sent her to catch a gigantic one of these animals who was destined to never be caught. Zeus turned this animal into Canis Minor.

ANSWER: Teumessian **Fox** [or the Cadmean **Fox**; or **Vixen**]

[10] Before turning them into constellations, Zeus first resolved the paradox by performing this action. The eyes of Medusa also had the power to perform this action.

ANSWER: **Turned them into stone** [or **petrification**; or word forms, such as **petrifying**] <David Dennis>