



## 2016 Washington/Hickman Academic Questionfest (WHAQ)

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Trindade) Teams

### Packet 7

#### Tossups

1. In an episode of this show, one character pretends to be a pipe smoking, tweed wearing professor in order to retrieve a jacket that he claims attracts women. One character on this show is cast in a Woody Allen movie where his line “these pretzels are making me thirsty” is(\*) quoted by his friends whenever they are angry. The main characters of this show frequent Monk’s cafe. A minor character in this show is a restaurant owner who is known as the Soup Nazi for his strict rules. For 10 points, name this 90’s sitcom based on its eponymous lead’s standup and whose characters include Elaine, George, Kramer and Jerry.

ANSWER: Seinfeld <Dinis Trindade>/<ed. Sean>/<ed. Jacob>

2. This king was assisted by his son Amun-her-khepeshef while campaigning in Nubia. In the second year of his reign, this king defeated the Sherden pirates, who are one possible identity of the “Sea Peoples.” The mummy of this son of Seti I was discovered at Deir el-Bahari in 1881. This king signed the first recorded(\*) peace treaty with Hatusilli III. This king defeated the brother of Hatusilli, Muwatallis II, at the largest chariot battle in history. For 10 points, name this New Kingdom Pharaoh who won the Battle of Kadesh.

ANSWER: Ramses II [Rameses II; or Ramses the Great; or Rameses the Great; or Ozymandias; prompt on Ramses or Rameses] <Cole Phinney>/<ed. Jacob>

3. In a twist ending to a novel by this author, Dr. James Sheppard is the new sidekick of a detective until it is revealed that he killed the title character. This author wrote a book where Justice Wargrave and nine killers are invited to Soldier Island. This author of *The Murder of Roger Ackroyd* wrote about a (\*)Belgian detective who uses his “little grey cells” to prove that every passenger on a train murdered Mr. Ratchett. For 10 points, name this British author of *And Then There Were None* and *Murder on the Orient Express*, who created the detective Hercule Poirot (“Pwah-roh”).

ANSWER: Agatha Christie <Alex Harmata>/<ed. Jacob>

4. Followers of this religion seek to embody the ideal of the Sant-Sipahi, or warrior-saint. This religion's three pillars include serving meals in communal langar kitchens. Those langar kitchens are located in this religion's places of worship, which are called gurdwaras ("gur-dwahr-uhs"). This religion's central text contains the teachings of Muslim Sufis and Hindu Bhaktas ("buhk-tuhs") and succeeded(\*) Gobind Singh as the religion's eleventh guru. This religion's practitioners observe the five Ks, and its holy text is the Adi Granth. For 10 points, name this Indian religion started by Guru Nanak.

ANSWER: Sikhism [or the Sikh faith; or Sikhs; or Gurmat; or the Way of the Guru before "Guru" is read] <Spencer Johnson>/<ed. Jacob>

5. Clinics testing the morphology of these entities can utilize the Kruger strict criteria or the W-H-O criteria. These entities' acrosomes contain digestive enzymes, as well as a ring of mitochondria around their midpiece. These cells are produced with the assistance of Sertoli cells. They are stored in the epididymis ("ep-uh-DID-uh-miss"), and the Cowper gland assists in the(\*) journey of these cells. Their motion is aided by their flagella. For 10 points, name these male gametes, which can fertilize eggs.

ANSWER: sperm [or spermatozoa; or spermatids; or sperm cells] <Alex Harmata/ed. David Dennis>

6. The Jeffers Petroglyphs on a prairie in this state are embedded in the Red Rock Ridge that was mined at present-day Pipestone National Monument. St. Urho Day, which celebrates a non-existent saint, was created by Finnish settlers in this state. The Cuyuna and Vermillion Ranges are currently inactive, but low-grade taconite ore continues to be mined in this state's(\*) Mesabi Range. The St. Anthony and Minnehaha Falls are both found along the Mississippi River in this state's most populous city. For 10 points, name this state whose capital of St. Paul is "twinned" with Minneapolis.

ANSWER: Minnesota <David Dennis>/<ed. Chris Chiego>

7. A gear box with reduction ratios greater than one is known as this quantity's "multiplier." For a rotation about a fixed axis through the center of mass, work is given by the integral of this quantity with respect to theta. In rotational mechanical equilibrium, the angular momentum is conserved along with the net value of this quantity. This quantity can be measured in foot-pounds or(\*) newton-meters. The twisting of an object due to the application of this quantity is known as torsion. This quantity can be calculated as the moment of inertia times angular acceleration or as the cross product of the distance and force vectors. For 10 points, identify this rotational analogue of force.

ANSWER: torque <Wenzer Qin>/<ed. Jake Sundberg>

8. A darkroom technician ruined all but eleven of Robert Capa's photographs of this event. During this event, Army Rangers suffered high casualties while trying to capture Pointe-du-Hoc. Prior to this event, one side was confused by the placement of a dummy army led by George Patton. Before this event started,(\*) Sainte-Mere-Eglise was captured by American paratroopers. This event saw fighting at five beaches, although the fighting on Utah Beach lasted less than an hour. For 10 points, name this Allied invasion of Europe that occurred on June 6th, 1944.

ANSWER: D-Day [or Operation Overlord; or the Battle of Normandy; or the Normandy invasion; or word forms for the invasion of Normandy; or Operation Neptune] <Cole Phinney>/<ed. Jacob>

9. In *The History of Western Philosophy*, Bertrand Russell described Hitler as “an outcome of” this man. The title of this philosopher's autobiography was named for a similar work by Augustine. The term “noble savage” is often misattributed to this thinker due to his description of the state of nature in(\*) *Discourse on Inequality*. This author of *Confessions* described a fictional man's education in *Emile* and posited the need for a “general will” in a book which claims that “man is born free, and everywhere he is in chains.” For 10 points, name this philosopher from Geneva who wrote *The Social Contract*.

ANSWER: Jean-Jacques Rousseau <Spencer Johnson>/<ed. Jacob>

10. A poem about a memorial to soldiers that served in this war describes how a “Sahara of snow” surrounds a monument with an “angry wrenlike vigilance.” A poem set during this war is about a woman who declares “shoot if you must this old grey head, but spare your country's flag” while opposing a(\*) general's march. Robert Lowell memorialized a unit that fought in this war in a poem about the Robert Gould Shaw memorial. Henry Fleming fights in this war in *The Red Badge of Courage*. For 10 points, name this war where Whittier's “Barbara Frietchie” opposes “Stonewall” Jackson's March to Antietam.

ANSWER: The American Civil War [or the War Between the States; or any of the numerous names for the Civil War; or any answer that indicates the North and South are fighting each other] <Jacob O'Rourke>

11. This man gave a speech in order to allow Myles Cooper to escape from an angry mob. This man advocated for the use of a sinking fund and the assumption of state debts in his “Report on Public Credit.” This native of Nevis in the British(\*) West Indies wrote 51 of the 85 essays in the *Federalist Papers*. This man died at Weehawken, New Jersey after being wounded in a duel against Aaron Burr. For 10 points, name this first Secretary of the Treasury who is on the ten dollar bill.

ANSWER: Alexander Hamilton <Cole Phinney>/<ed. Jacob>

12. An early publication of this work in Seiffert's *Organum* shows an inauthentic starting tempo of 56 beats a minute. This most famous work of the composer of *Hexachordum Apollinis* was originally paired with a gigue (“JEEG”) in the same key. This work is usually performed by a string quartet, with the cello part repeating the ground bass(\*) twenty-eight times and the three violins playing the same melody two measures apart. For 10 points, name this popular wedding piece by Johann Pachelbel. (“PAHCK-ell-bell”)

ANSWER: Canon in D Major [prompt on Canon or Pachelbel’s Canon] <Wenzer Qin/ed. David Dennis>

13. The failed arm of one part of three of these objects becomes an aulacogen, a subsiding sedimentary basin. The location where three of these objects meet are called triple junctions. “Ridge Push” and(\*) “Slab Pull” help to explain their movement, and most of the world’s active volcanoes are at the boundaries of these objects. They form divergent, convergent or transform boundaries and can be pulled into the mantle in subduction zones. For 10 points, name these large moving slabs of Earth’s crust whose motion causes continental drift.

ANSWER: Tectonic plates <David Dennis>/<ed. Jacob>

14. A servant in this novel is only permitted to communicate with his master through sign language. A former convict in this novel has a fleur-de-lis branded on her left shoulder. A scandal nearly breaks out in this novel after Queen Anne of Austria gives her diamond necklace to her lover. The antagonist of this novel convinces John Felton to free her and assassinate the Duke of(\*) Buckingham. In this novel, Milady de Winter is executed by D’Artagnan. For 10 points, name this Alexandre Dumas novel about the title trio consisting of Athos, Porthos, and Aramis.

ANSWER: *The Three Musketeers* [*Les Trois Mousquetaires*] <Carrie Derner>/<ed. Jacob>

15. A player of this instrument wrote the songs “In the Mood” and “Moonlight Serenade”. In addition to Glenn Miller, Juan Tizol played the “valve” version of this instrument. “Tricky Sam” Nanton played this instrument in tandem with a(\*) plunger. In “Getting Sentimental Over You,” this instrument was played by Tommy Dorsey. Seventy-six of these instruments led a parade in a song from *The Music Man*. For 10 points, name this brass instrument in which the pitch is changed by a slide.

ANSWER: Trombone <Joe Stitz/ed. David Dennis>

16. For metal oxides, this quantity is plotted against temperature in an Ellingham diagram. A reaction’s chemical potential is equivalent to the partial molar measurement of this quantity. One definition for this quantity explains why some reactions are only favorable at higher or lower temperatures and that equation states this quantity is equal to(\*) enthalpy minus temperature times entropy. For 10 points, name this thermodynamic quantity that is negative for spontaneous processes, which is symbolized G.

ANSWER: Gibbs free energy [prompt on energy or free energy] <Wenzer Qin/ed. David Dennis>

17. A goddess of this type turns into a crow and perches herself on Cu Chulain's ("kuh koo-len's") shoulder after he dies. The Aztec god of this type emerges from his mother fully grown and is nicknamed the "left-handed hummingbird." These types of gods include the Irish Morrigan and Huitzilopochtli ("wee-tsee-loh-pohch-tee"), and the Norse god of this type sacrificed his(\*) hand to bind Fenrir. A god of this type was caught in a net built by Hephaestus to catch him sleeping with Aphrodite. That Greek God of this type is accompanied by his children Phobos and Deimos. For 10 points, name these types of gods exemplified by Tyr ("teer") and Ares.

ANSWER: god of war [or gods of war; or war deities; or goddess of war] <Joe Stitz>/<ed. Jacob>

18. In one of this author's plays, Marco stabs Eddie Carbone for reporting Marco and Rodolpho as illegal immigrants. In a play by this author, a character steals Bill Oliver's fountain pen after catching his father having an affair in Boston. This author of *A View from the Bridge* wrote about a group of (\*)girls, who are led by Abigail Putnam, accusing multiple people in Salem of witchcraft. This author's most famous play ends with Willy Loman crashing his car to give his sons' the life insurance money. For 10 points, name this author of *The Crucible* and *Death of a Salesman*.

ANSWER: Arthur Miller [Arthur Asher Miller] <Carrie Derner>/<ed. Jacob>

19. While in exile, this man helped to invent chewing gum by bringing the first shipments of chicle to the United States, which his secretary Thomas Adams then turned into Chiclets. This man's political career ended after Ignacio Comonfort and Benito Juarez supported his overthrow in the Plan of Ayutla. While fighting the Pastry War, this man buried an(\*) amputated leg with full military honors. This leader was forced to sign the Treaty of Velasco after losing the Battle of San Jacinto to Sam Houston. For 10 points, name this Mexican dictator who massacred the Texan defenders of the Alamo.

ANSWER: Antonio López de Santa Anna [Antonio de Padua Maria Severino Lopez de Santa Anna y Perez de Lebron] <Cole Phinney>/<ed. Jacob>

20. The background of this painting contains copies made by the artist's son-in-law, Juan del Mazo, of paintings by Peter Paul Rubens. A small mirror in the background of this painting portrays Mariana of Austria and Philip IV. A figure on the left of this painting, who may represent the artist, has the symbol of the Order of St. James painted on his chest. On the right hand side of this painting, a(\*) child rests his foot on a large dog, and a member of the title group offers the princess a drink. For 10 points, name this Diego Velazquez painting which depicts the Infanta Margarita.

ANSWER: Las Meninas [or *The Maids of Honor*; or *The Ladies in Waiting*; or *The Royal Family*] <Matt Chalem>/<ed. Jacob>

Tiebreaker

**In a novel by this author, Stavrogin becomes the leader of a group of revolutionaries. A character created by this author of *The Possessed* tells his younger brother a “poem in prose” where Jesus kisses the title character on his “bloodless, aged lips.” This author included the parable of the “Grand Inquisitor” in his last novel, which ends with Dmitri’s murder trial. In a different novel by this author of *The Brothers(\*) Karamazov*, Porfiry Petrovich investigates Raskolnikov for the murder of a pawnbroker. For 10 points, name this Russian author of *Crime and Punishment*.**

ANSWER: Fyodor Dostoyevsky [Fyodor Mikhaylovich Dostoevsky] <Jacob O’Rourke>

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### **Bonuses**

1. According to legend, the god Pan caused a panic in the Persian ranks at this battle. For 10 points each:

[10] Name this battle, which ended Darius I's invasion of Greece. A soldier named Pheidippides ran 26.2 miles to deliver news of victory after this battle.

ANSWER: Battle of **Marathon**

[10] This politician and general fought at the Battle of Marathon. This man built up his city's navy and commanded the Allied navy at the Battle of Salamis.

ANSWER: **Themistocles**

[10] Themistocles was a statesman of this democratic city-state. This city in Attica fought in the Peloponnesian War against Sparta.

ANSWER: **Athens** [**Athenai**; or **Athinai**] <Cole Phinney>/<ed. Jacob>

2. This operation can be interpreted as determining the area under a curve. For 10 points each:

[10] Name this operation, shown to be the inverse of differentiation by the Fundamental Theorem of Calculus.

ANSWER: **integration** [or word forms, such as finding the **integral**]

[10] If you cut up a curve into lots of contiguous rectangles, then find the cumulative area of the rectangles, you've done a type of integration named for this German mathematician. This type of integration should not be confused with Lebesgue integration.

ANSWER: **Riemann** integration [or **Riemann** integral]

[10] Integration can be used to find that this figure, formed by rotation of the curve "1 divided by x from x equals 1 to x equals infinity" around the x-axis, has infinite surface area but finite volume.

ANSWER: **Gabriel's Horn** [or **Toricelli's trumpet**] <Alex Harmata>/<ed. Seth Ebner>

3. August the Strong developed this city's cultural institutions including a series of canals and the Green Vault treasure museum. For 10 points each:

[10] Name this city whose Lutheran Frauenkirche church was rechristened in 2005 after its dome collapsed in February 1945.

ANSWER: **Dresden**

[10] Dresden and nearby Leipzig are both found within the state of Saxony in this modern-day country whose capital is Berlin.

ANSWER: **Germany** [or **Deutschland**; or Bundesrepublik **Deutschland**]

[10] Dresden is found on this river, the second longest in Germany. It passes through a sandstone gorge as it flows from Bohemia to the North Sea.

ANSWER: **Elbe** River [or the **Labe** River] <Alex Harmata>/<ed. Chris Chiego>

4. In this play, Cecily Cardew and Gwendolyn Fairfax are shocked to discover that they are both engaged to the same nonexistent man. For 10 points each:

[10] Name this play about Algernon Moncrieff and Jack Worthing, both of whom claim to have the title name.

ANSWER: The Importance of Being Earnest

[10] *The Importance of Being Earnest* is by this Irish author of *Lady Windermere's Fan*, whose only novel is *The Picture of Dorian Gray*.

ANSWER: Oscar Wilde [Oscar Fingal O'Flahertie Wills Wilde]

[10] Wilde is also known for this long poem that states "all men kill the thing they love." This poem states that the "coward does it with a kiss" and the "brave man [does it] with a sword!"

ANSWER: "The Ballad of Reading Gaol" ("Redding Jail") <Carrie Derner>/<ed. Jacob>

5. In this painting, a green man wearing a necklace with a cross looks at a goat. For 10 points each:

[10] Name this painting meant to reflect the artist's memories of living in a Hasidic town in modern-day Belarus.

ANSWER: I and the Village

[10] This painter of *Self-Portrait with Seven Fingers* and *Paris Through the Window* created *I and the Village*.

ANSWER: Marc Chagall [or Moishe Shagal]

[10] Chagall painted *White* and *Yellow* versions of this scene which is also prominent in his *Apocalypse in Lilac*, *Capriccio*. A menorah can be found at the bottom of the *White* version.

ANSWER: Crucifixion of Jesus Christ <David Dennis>/<ed. Seth Ebner>

6. Answer the following about *Profiles in Courage*, for 10 points each:

[10] Chapter 9 praises Senator Robert Taft for his criticism that these tribunals, which judged wartime criminals, violated the principle of *ex post facto*.

ANSWER: Nuremberg trials [or Nurnberg trials; or Nuremberg tribunal; or Nurnberg tribunal; prompt on answers along the lines of Nazi trials or trials of Nazi leaders]

[10] *Profiles in Courage* is credited to this President, who was shot by Lee Harvey Oswald in 1963.

ANSWER: John F. Kennedy [or JFK]

[10] George Norris was lauded in *Profiles in Courage* for opposing Joseph Cannon, who held this governmental position. The "disappearing quorum" was used against another holder of this position.

ANSWER: Speaker of the House [or Speaker of the United States House of Representatives] <Diana Harmata>/<ed. Jacob>



7. General Arroyo and the teacher Harriet Winslow appear in this author's novel inspired by the disappearance of Ambrose Bierce. For 10 points each:

[10] Name the writer of *The Old Gringo*. The title character of a different novel by this man blackmails Catalina, the daughter of a landowner, into a loveless marriage.

ANSWER: Carlos **Fuentes** [Carlos **Fuentes** Macias]

[10] This Fuentes novel centers on flashbacks made by the title character, a business tycoon who lies about the location of his will to his wife Catalina and daughter Teresa.

ANSWER: *The **Death of Artemio Cruz*** [*La **Muerte de Artemio Cruz***]

[10] Fuentes set *The Old Gringo* in this country, where Bierce disappeared. Octavio Paz discussed this country's culture in essays such as "The Day of the Dead."

ANSWER: **Mexico** [**United Mexican States**; or **Estados Unidos Mexicanos**] <Sherry Xie>/<ed. Jacob>

8. As punishment for his involvement in the death of Baldr, this god writhes in pain when snake venom drips onto his face, which is the cause of earthquakes. For 10 points each:

[10] Name this god, who kills Fimafeng in a dialogue-heavy text that is partly named for him. This god is the Norse trickster god.

ANSWER: **Loki** [or **Loptir**; or **Hveorungr**]

[10] This eight legged steed of Odin was born when Loki turned into a mare and mated with the stallion Svadilfari in order to stop a giant from completing the walls of Asgard.

ANSWER: **Sleipnir**

[10] Fimafeng was a servant of this Norse god of the sea, who was the father of the nine Billow Maidens. This god hosts the feast that the *Lokasenna* is set during.

ANSWER: **Aegir** [or **Hler**; or **Gymir**] <Dinis Trindade>/<ed. Jacob>

9. This man is considered the father of modern genetics. For 10 points each:

[10] Name this monk who formulated three laws of inheritance. He is famous for his work with pea plants.

ANSWER: Gregor **Mendel**

[10] This name given to Mendel's second law states that the passing on of one gene does not affect the passing on of a different gene.

ANSWER: Law of **independent assortment** [or **inheritance** law]

[10] Thomas Hunt Morgan's work cross-breeding red and white-eyed members of this species allowed him to find an exception to the law of independent assortment. These tiny, winged insects are attracted to rotting food.

ANSWER: *Drosophila* **melanogaster** [or **fruit fly**] <David Dennis>

10. Part of the New Frontiers program, this probe became the first solar-powered spacecraft to explore an outer planet. For 10 points each:

[10] Name this probe launched in 2011 that reached its destination of Jupiter in July of 2016.

ANSWER: **Juno**

[10] The probe *Dawn* has been orbiting this dwarf planet since March of 2015. It also orbited Vesta in 2011.

ANSWER: **Ceres**

[10] This successor to the Hubble and Spitzer telescopes is scheduled to launch in 2018. It was previously known as the Next Generation Space Telescope, and was renamed after the 2nd director of NASA.

ANSWER: James **Webb** Space Telescope [or **JWST**] <David Dennis>

11. Name these Indie games. For 10 points each:

[10] This game was designed by Norwegian Markus Peerson, or “Notch.” Creepers spawn at night in this Mojang sandbox game, where you use one cubic meter blocks to create designs.

ANSWER: **Minecraft**

[10] This game was developed by a Japanese man nicknamed “Pixel.” In this platformer game, Quote the robot tries to stop the Doctor from enslaving the rabbit-like Mimiga on a floating island.

ANSWER: **Cave Story**

[10] In this RPG developed by Toby Fox, the player controls a human who has fallen into a world of monsters kept secret by magic. Mt. Ebott is the only way to access the world of this game.

ANSWER: **Undertale** <Stephen Bunch>/<ed. Jacob>

12. This force inspired a speech at Tilbury and was defeated by the “Protestant wind.” For 10 points each:

[10] Name this force that was commissioned by Philip II to invade England through the sea and restore the Catholic faith to prominence.

ANSWER: **Spanish Armada** [or the **Invincible Armada**; or the **Armada Espanola**; or the **Armada Invencible**]

[10] The Spanish Armada was defeated during this English Monarch's reign. This “Virgin Queen” responded to the Armada with the Tilbury Speech.

ANSWER: **Elizabeth I** [prompt on **Elizabeth**]

[10] The Spanish Armada was commanded by this nobleman, who was endlessly mocked after the Earl of Essex and Sir Charles Howard captured Cadiz in 1596.

ANSWER: Duke of **Medina Sidonia** [Alonso **Pérez de Guzmán**, 7th Duke of Medina Sidonia] <Cole Phinney>/<ed. Jacob>

13. This Czech priest was burned at the stake for heresy in 1415 at the Council of Constance. For 10 points each:

[10] Name this man, who denounced the sale of indulgences by Antipope John XXIII. During a set of wars named for this man, handheld firearms such as hand cannons were first extensively used.

ANSWER: Jan **Hus** [or the **Hussite Wars**]

[10] This text was translated from the Vulgate into English by the leader of the Lollards, John Wycliffe in 1384.

ANSWER: the **Bible** [or Wycliffe's **Bible**; or the English **Bible**]

[10] In 2015, Pope Francis made an apology for the Piedmont Easter in this city with a major Waldensian shrine. This city also contains a linen cloth believed to be the burial shroud of Jesus.

ANSWER: **Turin**, Italy [or Shroud of **Turin**; or **Turin** Shroud] <David Dennis>/<ed. Jacob>

14. Rings make the world of chemistry go round. For 10 points each:

[10] This compound, which can exist as a 6-membered ring, is a sugar used for energy in cellular respiration. Its formula is  $C_6H_{12}O_6$ .

ANSWER: **glucose**

[10] The cyclic structure of this aromatic hydrocarbon was legendarily determined by Kekule's ("kay-KOO-lay's") daydream of a snake biting its own tail. It is a potent carcinogen.

ANSWER: **benzene**

[10] This allotrope of oxygen is believed to cleave alkenes through a cyclic intermediate, forming carbonyl containing products.

ANSWER: **ozone** [or **O<sub>3</sub>**] <Alex Harmata/ed. David Dennis>

15. This poem states that it was "theirs not to reason why, theirs but to do and die." For 10 points each:

[10] Name this poem in which the title group of six hundred men ride "half a league, half a league onward" "into the valley of Death."

ANSWER: "The **Charge of the Light Brigade**"

[10] This author of "The Charge of the Light Brigade" also wrote about a king of Ithaca who seeks "To strive, to seek, to find, and not to yield" in his poem "Ulysses."

ANSWER: Alfred, Lord **Tennyson** [Alfred **Tennyson**, 1st Baron Tennyson of Aldworth and Freshwater]

[10] This poem traditionally appears last in collections of Tennyson's poetry. The speaker of this poem declares that "I hope to see my Pilot face to face" before performing the title action.

ANSWER: "**Crossing the Bar**"<Carrie Derner>/<ed. Jacob>

16. NOTE TO MODERATOR: Do not reveal the alternate answer to the first part of this bonus unless a team gives it. Thanks!

This leader reportedly died of a nosebleed on the night of his wedding to Ildico. For 10 points each:

[10] Name this enemy of the late Roman empire, who co-ruled with his brother Bleda. Pope Leo I convinced this “Scourge of God” to not sack Rome.

ANSWER: Attila [accept, but do NOT reveal, Attila the Hun unless a team gives that answer]

[10] Attila was the ruler of these nomadic horsemen, who formed an empire that stretched between the Danube and Dnieper rivers.

ANSWER: Huns [or Hunni]

[10] The Huns’ invasion of Gaul was stopped at this 451 C.E battle, where Flavius Aetius led Roman forces. The Visigothic leader Theodoric I died at this battle.

ANSWER: Battle of the Catalaunian Plains [or the Battle of the Catalaunian Fields, or the Battle of Chalons, or the Battle of Maurica] <Dinis Trindade>/<ed. Jacob>

17. A light source’s movement can affect our observations of it. For 10 points each:

[10] When the source is moving towards the observer, this happens to the wavelength of the light the observer sees, and thus the light appears to be slightly blue.

ANSWER: it decreases [or lessens; or goes down; accept equivalents]

[10] This complementary phenomenon occurs when the source is moving away from the observer. Cosmological examples of this phenomenon serve as evidence that our universe is expanding.

ANSWER: Redshift

[10] Both blueshift and redshift are examples of this change in a wave’s frequency due to its relative motion. Sirens on moving vehicles are common examples of this effect.

ANSWER: Doppler effect [or Doppler shift] <Wenzer Qin>/<ed. Seth Ebner>

18. This school was where Albert Bandura’s Bobo doll experiment was conducted, and objections made by Christina Maslach ended a different experiment here after six days. For 10 points each:

[10] Name this university in Palo Alto, California, which was the home of a namesake “prison” experiment where undergraduates were separated into “guards” and “prisoners.”

ANSWER: Stanford University [or Leland Stanford Junior University]

[10] This psychology professor led the Stanford Prison Experiment, and later reflected on its results in his book *The Lucifer Effect*.

ANSWER: Philip Zimbardo [Philip George Zimbardo]

[10] Dave Eshelman, a participant in the experiment, adopted the persona of a cruel prison guard. Eshelman was nicknamed after this American actor for speaking in a southern accent.

ANSWER: John Wayne [Duke Wayne; or Duke Morrison; or Marion Michael Morrison] <Sherry Xie>/<ed. Jacob>

19. This character won an arm-wrestling match against a man from Cienfuegos, and he raves about “the great DiMaggio” to his apprentice Manolin. For 10 points each:

[10] Name this character, whose prize of a giant marlin is eaten by sharks when he attempts to end an 84-day streak of bad luck.

ANSWER: **Santiago** [or The **Old Man** from *The Old Man and the Sea*]

[10] This American author of *The Old Man and the Sea* also wrote the story “Hills Like White Elephants,” and novels such as *The Sun Also Rises* and *A Farewell to Arms*.

ANSWER: Ernest **Hemingway**

[10] Hemingway created this semi-autobiographical character, whose namesake collection of stories includes “Indian Camp”, “The Killers”, and “Big Two-Hearted River.”

ANSWER: Nick **Adams** [**Nick** Adams; or **Nicholas** Adams] <Carrie Derner>/<ed. Jacob>

20. In *What’s Opera, Doc?*, Elmer Fudd sings “Kill da Wabbit” to the tune of this piece. For 10 points each:

[10] Name this piece from the second opera of the *Ring* cycle which represents the title female figures gathering in preparation for taking fallen heroes to Valhalla.

ANSWER: “**Ride of the Valkyries**” [or “**Ritt der Walküren**”]

[10] For the Ring cycle, the composer, Richard Wagner, designed a special version of this largest and lowest symphonic brass instrument.

ANSWER: **Tuba**

[10] Wagner also wrote this tragic opera, in which Brangane brings the two title characters a love potion instead of the instructed poison. At the end, the heroine dies after singing the aria “Liebestod.”

ANSWER: **Tristan und Isolde** <Wenzer Qin/ed. David Dennis>

Extra

Name these World War II Pacific Theater Naval Battles. For 10 points each:

[10] Before this battle, American code breakers broke the JN-25 code. The American navy only lost one aircraft carrier as a result of this battle, the *U.S.S. Yorktown*.

ANSWER: Battle of **Midway**

[10] This battle marked the first time aircraft carriers engaged each other and the first time neither side’s ships saw each other. This naval battle halted Japan’s advance to Australia.

ANSWER: Battle of the **Coral Sea**

[10] The naval battle named for this island in the Solomon Islands occurred after the United States captured Henderson Airfield. The early battles on this island had the codename Operation Watchtower, and it was the first major offensive by the Allies against Japan.

ANSWER: **Guadalcanal** [Battle of **Guadalcanal**] <Cole Phinney>/<ed. Jacob>