



## 2016 Washington/Hickman Academic Questionfest (WHAQ)

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Trindade) Teams

### Packet 5

#### Tossups

1. **Paul VI led a 1965 attempt to reconcile from the effects of this event. John VIII of the Palaiologos dynasty attempted to end the disputes caused by this event by calling the Council of Florence. Disputes over whether leavened or unleavened bread should be used in the Eucharist and the supremacy of the (\*) Pope led to this event.** This event formally began with a mutual excommunication between Leo IX and Michael Cerularius. For 10 points, name this 1054 schism, which saw Christianity break into Catholic and Eastern Orthodox branches.

ANSWER: the **Great Schism** [or the **East-West Schism**; or the Schism of **1054** before it is mentioned; prompt on schism] <Sophia Johnson/><ed. Jacob>

2. **One piece from this composer's Opus 10 was inspired by the November Uprising. One of the more famous works by this composer of the "Revolutionary" Etude uses repeating A-flat eighth notes to represent a storm, while another work was inspired by a (\*) dog chasing its own tail; those pieces are the "Raindrop" prelude and "Minute" waltz, respectively.** For 10 points, which Polish Romantic composer of the *Fantaisie-Improptu* was famous for his many polonaises, mazurkas, and nocturnes?

ANSWER: Frédéric **Chopin** <Sherry Xie/ed. David Dennis>

3. **These compounds react with carboxylic acids in the Fischer esterification and these compounds are the products of reactions between Grignard reagents and carbonyl groups. The Jones Reagent oxidizes secondary versions of these compounds to ketones. In Brazil, sugarcane is the primary source for one of these compounds used as a (\*) biofuel, but corn is the more common source in the US. These compounds are given the formula R-OH.** For 10 points, name these compounds with a hydroxyl group, the simplest of which is methanol.

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

4. **The speaker of a poem by this author declares “White Godiva, I unpeel dead hands, dead stringencies” in the title poem of a posthumously published collection. This poet declared that “out of the ash, I rise with my red hair, and eat men like air” in one poem. In a different poem, this poet of (\*) *Ariel* says that “every woman adores a Fascist” before declaring “you bastard, I’m through.” This poet wrote about a “man in black with a Meinkampf look” in a poem based on her relationship with her father Otto. For 10 points, name this American poet of “Lady Lazarus” and “Daddy.”**

ANSWER: Sylvia **Plath** <Sherry Xie>/<ed. Jacob>

5. **This city’s tallest building is a Renzo Piano-designed glass-clad pyramid dubbed “The Shard” by its opponents. A building in this city nicknamed the “Walkie Talkie” has been criticised for causing heavy downdrafts and focusing sunbeams into a “deathray” that burned cars and bikes. The once-notoriously wobbly (\*) Millennium Bridge connects the Tate Modern in this city to St. Paul’s Cathedral. A ferris wheel known as this city’s “Eye” is found across the Thames River from Big Ben. For 10 points, name this capital of England.**

ANSWER: **London** [or **Londinium**] <David Dennis>/<ed. Chris Chiego>

6. **Users can make images appear hallucinogenic through the use of convolutional neural networks in this company’s DeepDream program. In May 2016, this company released a framework for natural language understanding called SyntaxNet, along with the dependency parser Parsey McParseface. Those tools were created for this company’s machine learning library, (\*) TensorFlow. In March 2016, Lee Sedol was defeated by this company’s game-playing AI called AlphaGo in a widely broadcast five-game match. For 10 points, name this company whose PageRank algorithm sorts results from their search engine.**

ANSWER: **Google** Inc. [or **Alphabet** Inc.] <Seth Ebner>

7. **In this religion, the soul includes the gros-bon-ange, the life force shared by all humans. Practitioners of this religion draw veves to summon spirits. This religion includes dark sorcerers called Bokor, and the Marasa are considered to be the first children of this religion’s supreme god, Bondye. The priests of this religion, depending on their gender, are called (\*) Houngans or Mambos. Papa Legba acts as an intermediary between humanity and this religion’s Loa. For 10 points, name this syncretic religion associated with namesake dolls in pop culture.**

ANSWER: **Voodoo** [or **Vodou**; or **Vodun**] <Sophia Johnson>/<ed. Jacob>

8. **A clergyman in this novel reads a collection of Fordyce’s sermons to a family. In this novel, the weak singing of a sister at the Netherfield ball causes the protagonist of this novel embarrassment. This novel begins by noting that “a single man in possession of a good fortune must be in want of a wife.” Near the end of this novel, the childhood friend of George (\*) Wickham prevents a scandal by convincing him to marry Lydia. For 10 points, name this novel by Jane Austen about the romance between Elizabeth Bennet and Mr. Darcy.**

ANSWER: ***Pride and Prejudice*** <Sherry Xie>/<ed. Jacob>

9. After fighting in the Urabi Rebellion, a prime minister of this country named Saad Zaghloul founded the nationalist Wafd Party. This nation's King Farouk was overthrown in a coup led by Muhammad Naguib's Free Officers Movement. The third president of this country was killed after signing the Camp David Accords with (\*) Menachem Begin. This country was invaded by Britain after it nationalized the Suez Canal, and its former presidents include Gamal Abdel Nasser and Anwar Sadat. For 10 points, name this country which saw protests of Hosni Mubarak's regime in Cairo.

ANSWER: Egypt [Arab Republic of Egypt; or Jumhuriyat Misr al-Arabiyyah] <Cole Phinney>/<ed. Jacob>

10. One recurring prop on this show is a Rubik's cube tissue box. A main character on this show was called "Moon Pie" by his grandmother. One character on this show is disappointed when it seems no one cares about his return from the International Space Station. That character's best friend is an (\*) Indian scientist who can only talk to women after consuming alcohol. For 10 points, identify this CBS sitcom that features actors Johnny Galecki and Jim Parsons as Caltech physicist roommates named Leonard and Sheldon.

ANSWER: *The Big Bang Theory* <Wenzer Qin>/<ed. Sean>/<ed. Jacob>

11. The study of Dirac ("dih-rak") fields can be simplified using this man's namesake slash notation. This physicist is the second name in the doubly eponymous absorber theory he devised with John Wheeler. Building on the work of Paul Dirac and Norbert Wiener, this physicist originated a path integral formulation to find quantum amplitudes, and he shared a Nobel with Schwinger and Tomonaga for their work on quantum (\*) electrodynamics. Photons are shown as wavy lines on his namesake diagrams. For 10 points, name this CalTech professor whose talks are collected in his namesake *Lectures on Physics*.

ANSWER: Richard Feynman [Richard Phillips Feynman] <Joe Stitz>/<ed. Seth Ebner>

12. This man developed a theory which states that all natural bodies consist of two principles, namely form and matter. A work by this developer of holomorphism states that the highest aim of all human practical thinking is eudaimonia, or happiness. In the second book of that work named after his (\*) son, this philosopher described virtue as the mean between the extremes of vice. This philosopher's lectures at the Lyceum were turned into the *Organon* and the *Nichomachean Ethics*. For 10 points, name this Greek philosopher, a pupil of Plato who tutored Alexander the Great.

ANSWER: Aristotle [Aristotle of Stagira; or Aristoteles] <Wenzer Qin>/<ed. Jacob>

13. This man's first play was staged under the direction of Gregorio Martinez Sierra. In a play by this man, three woodcutters predict that two lovers will be caught once the moon appears in the sky. In a play by this author of *The Butterfly's Evil Spell*, Adela hangs herself after her sisters learn that she is Pepe el Romano's lover. In a play by this man, (\*) Leonardo Felix and "the Groom" kill each other over their love for "the Bride." This author's "Rural Trilogy" includes *Yerma* and *The House of Bernarda Alba*. For 10 points, name this Spanish author of *Blood Wedding*.

ANSWER: Federico Garcia Lorca [Federico del Sagrado Corazón de Jesús García Lorca] <Joe Stitz>/<ed. Jacob>

14. **Artwork from this city includes the ruined Etemenanki (“eht-MEN-en-kee”) Temple. In a painting depicting a king of this city, the artist mistranscribed the words a disembodied hand writes on the suggestion of his friend Menasseh ben Israel. A basalt stele from this city depicts a ruler receiving divine inspiration from the sun god, (\*) Shamash. Rembrandt depicted a king of this city in *Belshazzar’s Feast*. One of the seven wonders of the ancient world was built in this city for the homesick Amytis by Nebuchadnezzar II. For 10 points, name this ancient city-state that produced the Hanging Gardens.**

ANSWER: **Babylon** [or **Bab-ilu**; or **Bab-ilim**; or **Bavel**; or **Babel**; or Atlatl **Babil**] <Wenzer Qin>/<ed. Jacob>

15. **The last indigenous leader of this empire was captured at Momori and executed. This empire was led by Tupac Amaru. Because it did not have a written language, this empire used a series of knotted strings called quipus (“kwee-poops”) to record information. A leader of this empire threw a (\*) Bible on the ground before he was captured at the Battle of Cajamarca. This empire was weakened by a civil war between the brothers Huascar and Atahualpa. For 10 points, name this South American empire that was conquered by Francisco Pizarro and centered in modern-day Peru.**

ANSWER: **Incan** Empire [or **Incas**] <Cole Phinney>/<ed. Jacob>

16. **In females, this process produces multiple polar bodies and one oocyte (“oh-oh-site”). Nondisjunction during this process can result in disorders such as Turner syndrome and Down syndrome. In this process, chiasmata are formed during (\*) crossing over which helps ensure that this process results in genetic diversity. Up to 90% of the total time taken for this process is in its Prophase I stage. For 10 points, name this method of cell division that results in four non-identical gametes and is often contrasted with mitosis.**

ANSWER: **Meiosis** [do NOT accept or prompt on “mitosis”] <Wenzer Qin/ed. David Dennis>

17. **The Silent Sentinels picketed the White House in support of this cause, which resulted in them being abused in jail during the “Night of Terror.” A Diego Velazquez painting in London’s National Gallery was slashed by a supporter of this cause. In 1869, the (\*) Wyoming Territory became the first U.S. state to enact the goals of this cause. The first grievance in the Declaration of Sentiments decries the lack of this right, which Susan B. Anthony and Elizabeth Cady Stanton campaigned for. For 10 points, name this right, which was given to women in the United States by the 19th Amendment.**

ANSWER: women’s **suffrage** [or **suffragism**; or **voting**; or the right of women to **vote**; or word forms for women being able to **vote**] <Owen Pasley>/<ed. Jacob>

18. **In one film, this director used superfast lenses and huge apertures to allow scenes to be lit only using candlelight. This notoriously difficult director of *Barry Lyndon* was hired to take over direction of another film, but he also took over most of the cinematography duties, ironically earning Russell Metty an Oscar for practically doing nothing. This director of (\*) *Spartacus* also directed Peter Sellers in *Dr. Strangelove*, and Lee Ermey in *Full Metal Jacket*. For 10 points, name this director of *A Clockwork Orange* and *The Shining*.**

ANSWER: Stanley **Kubrick** <David Dennis>

19. In a novel by this author, the abusive husband Buck Scales is hanged in a New Mexico town where Jean Marie Latour and Joseph Vaillant attempt to restore Catholicism. In a novel by this author, Frank Shabata shoots his wife Marie and her lover Emil in an orchard. This author of *Death Comes for the* (\*) *Archbishop* wrote about Alexandra Bergson marrying Carl Linson in *O Pioneers!* A novel by this author details Jim Burden's relationship with the title Bohemian peasant in her home state of Nebraska. For 10 points, name this American author of *My Antonia*.

ANSWER: Willa Cather [Wilella Sibert Cather] <Carrie Derner>/<ed. Jacob>

20. This deity withdrew her offer of immortality to Tydeus ("tahy-dee-us") after Tydeus ate the brains of Melanippus ("mel-uh-nip-uhs"). Tiresias ("tahy-ree-see-uhs") was blinded and later given the gift of prophecy by this goddess. In a competition with Poseidon, this goddess offered a city seeking a (\*) name an olive tree. This daughter of Metis spring fully formed from the head of her father, and her epithets include "Pallas." This goddess lost a weaving contest and turned Arachne into a spider. For 10 points, name this daughter of Zeus, a grey-eyed Greek goddess of wisdom.

ANSWER: Athena [Pallas Athena] <Wenzer Qin>/<ed. Jacob>

Tiebreaker

The National Salvation Front came to power in this country after a revolution was started by people who were listening to Laszlo Tokes ("las-lo tu-cas") preach. Horia Sima commanded the fascist Iron Guard in this country. The Securitate ("sekuri-tate") secret police was formed by a leader of this country who issued the July Theses. That leader of this country and his wife (\*) Elena were executed by firing squad on Christmas Day 1989. For 10 points, name this Eastern European country formerly governed by Nicolae Ceausescu ("nee-kaw-lahy chou-shes-koo") from its capital at Bucharest.

ANSWER: Romania [or Rumania] <Cole Phinney>/<ed. Jacob>

## **Bonuses**

1. In a novel set on this river, the phrase “Exterminate all the brutes!” is written in the postscript of a report. For 10 points each:

[10] Name this river travelled by Charles Marlow to find Kurtz. Henry Morton Stanley documented his journey on this river in *Through the Dark Continent*.

ANSWER: **Congo** River [or **Zaire** River]

[10] Kurtz’s dying words are “The horror! The horror!” in this novel by Joseph Conrad. This novel is narrated by Charles Marlowe.

ANSWER: **Heart of Darkness**

[10] This Trinidadian-born author wrote about the “Big Man,” who is probably a representation of the Congolese dictator Mobutu Sese Seko, in *A Bend in the River*.

ANSWER: V.S. **Naipaul** [or Sir Vidiadhar Surajprasad **Naipaul**] <Carrie Derner>/<ed. Jacob>

2. During this rebellion, the Hanlin Academy was torched by a group of Muslims called the Hansu Braves. For 10 points each:

[10] Name this rebellion, during which the Eight-Nation Alliance sacked Beijing. This rebellion was led by the Society of Righteous and Harmonious Fists and failed to get rid of foreigners.

ANSWER: **Boxer** Rebellion [or **Boxer** Uprising; or word forms for Rebellion, such as **Boxer** Revolt; or the **Yihequan** Movement]

[10] The Boxer Rebellion occurred during this dynasty. This dynasty also faced the Taiping Rebellion and was the last imperial dynasty of China.

ANSWER: **Qing** Dynasty [or **Qing** Chao; or **Ch’ing** Ch’ao; or the Great **Qing**; or Da **Qing**; or the Empire of the Great **Qing**; or **Manchu** Dynasty; or **Manzu** Dynasty]

[10] This Empress Dowager endorsed the Boxer Rebellion. Ronglu, a general loyal to this empress, placed the Guangxu Emperor under arrest to end the Hundred Days’ Reform.

ANSWER: **Cixi** [Empress Dowager **Cixi**; or Empress Dowager **Tz’u-hsi**; or **Xitaihou**; or **Xiaoqin** Xianhuanghou] <Cole Phinney>/<ed. Jacob>

3. Eugene Boudin persuaded this artist to leave drawing for painting outdoor scenes *en plein-air*. For 10 points each:

[10] First, name this artist famous for his paintings of haystacks and waterlilies. His work *Impression, Sunrise* gave its name to the Impressionist movement.

ANSWER: Claude **Monet** [Oscar-Claude **Monet**]

[10] Monet’s paintings of waterlilies were done in his garden in this French village.

ANSWER: **Giverny**

[10] Another of Monet’s series depicts this type of building in Rouen. Like the one in Reims, it was built in the Gothic style.

ANSWER: **Cathedrals** [or Rouen **Cathedral**] <David Dennis>/<ed. Seth Ebner>

4. Answer some questions about the eyes. For 10 points each:

[10] This light-sensitive tissue located in the back of the eye contains photosensitive cells. In diabetics, blood vessels in this tissue can bleed or leak fluid, distorting vision.

ANSWER: **retina**

[10] This yellow part of the retina contains the fovea. The often age-related degeneration of this retinal structure occurs in "dry" and "wet" forms.

ANSWER: **macula**

[10] Most forms of Daltonism, also known as the red-green form of this common visual problem, can be detected by the Ishihara test, a circle and number made of dots.

ANSWER: **color blindness** <Wenzer Qin>/<ed. David Dennis>

5. The native habitats of popular aquarium fish likes Discus, Oscars, and Angelfish are found within this river and its tributaries. For 10 points each:

[10] Name this river that is linked to the Orinoco by the Negro and Casiquiare Rivers. It discharges the most freshwater of any river in the world and is the longest in South America.

ANSWER: **Amazon** River

[10] Along with Lake Malawi, this deepest African Rift Lake is the primary source of African cichlids. Lake Kivu feeds this lake via the Ruzizi River, which borders Burundi and Rwanda.

ANSWER: Lake **Tanganika**

[10] Monster goldfish nearly two feet long have been caught in this alpine lake along the California-Nevada border after aquarium owners dumped them there. Its only outlet is the Truckee River.

ANSWER: Lake **Tahoe** <Alex Harmata>/<ed. Chris Chiego>

6. This Christian council attempted to standardize the date for Easter. For 10 points each:

[10] Name this council called by Constantine in AD 325. This first ecumenical council created a namesake creed that was later amended in the First Council of Constantinople.

ANSWER: First Council of **Nicea**

[10] This Christological heresy, which posited that Jesus was a created being subordinate to God the Father, was condemned at the First Council of Nicea.

ANSWER: **Arianism**

[10] Jesus and Mary allegedly visited this bishop of Myra after he slapped Arius during the council.

ANSWER: Saint **Nicholas** [or **Nicholas** of Myra] <Sophia Johnson>/<ed. Jacob>

7. During this battle, John Bowen failed to protect the Big Black River Bridge. For 10 points each:

[10] Name this Civil War siege of a Mississippi River fortress city, which ended when John C. Pemberton surrendered on July 4, 1863.

ANSWER: Siege of **Vicksburg** [or Battle of **Vicksburg**; or **Vicksburg** Campaign; or anything indicating fighting occurring in **Vicksburg**]

[10] This head of the Union's Army of the Tennessee captured Vicksburg. This general accepted Robert E. Lee's surrender at Appomattox Court House.

ANSWER: Ulysses S. **Grant** [or Hiram Ulysses **Grant**]

[10] During this battle in Grant's Petersburg Campaign, William Mahone led a "turkey shoot" after the Union Army detonated a mine and created a gap near Elliot's Salient.

ANSWER: Battle of the **Crater** <Jacob O'Rourke>

8. Name some world political leaders in their 40's. For 10 points each:

[10] An April 2016 video of this Canadian Prime Minister explaining quantum computing to a sarcastic reporter went viral. He is the son of a former Prime Minister.

ANSWER: **Justin Trudeau** [prompt on **Trudeau**; do NOT accept "Pierre Trudeau"]

[10] This leader of the Syriza party resigned six days after a referendum vote in August 2015. He won the office back, however, in snap elections one month later.

ANSWER: Alexis **Tsipras**

[10] Alexis Tsipras is the current head of this country's Hellenic Parliament. This Eurozone member admitted in 2009 that it had been understating its deficit figures for years.

ANSWER: **Greece** [or the **Hellenic** Republic; or **Ellas**; or **Elliniki** Dhimokratia] <David Dennis>

9. A compound of this element and hydrogen adds to double bonds in an anti-Markovnikov fashion due to its electronegativity being lower than hydrogen's. For 10 points each:

[10] Name this element whose trifluoride fits the Lewis acid definition but not other popular definitions. Its silicate is used in Pyrex glass.

ANSWER: **boron** [or **B**]

[10] These elements, such as boron, germanium, and arsenic, lie along a stair-step line separating metals from non-metals and have properties between those of metals and non-metals.

ANSWER: **metalloids** or **semi-metals** [do not accept "semiconductors"]

[10] Boron often violates this rule because it can achieve stability with only six electrons in its outer shell. This rule explains the high electron affinity of halogens.

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



10. In this poem, Unferth gives the sword Hrunting to the title character. For 10 points each:  
[10] Name this Old English poem in which the protagonist protects King Hrothgar's hall of Heorot by ripping out the arm of the monster Grendel.

ANSWER: **Beowulf**

[10] This second of the monsters that Beowulf faces kills Aeschere (“**ash-hair-uh**”), the best warrior of King Hrothgar. Like her son, this monster is a descendant of Cain.

ANSWER: **Grendel's mother** [or **Grendles moor**]

[10] This author of the *Silmarillion* worked on a translation of *Beowulf* that was edited by his son Christopher. That translation was the basis for his 1936 lecture “The Monsters and the Critics.”

ANSWER: J.R.R. **Tolkien** [John Ronald Reuel **Tolkien**] <Joe Stitz>/<ed. Jacob>

11. Answer the following about Native American mythology. For 10 points each:

[10] In some myths, this figure created man by kicking a ball of mud. This canine trickster figure of Native American mythology is nicknamed the “Old Man.”

ANSWER: **Coyote**

[10] The Ojibwe believe in this type of evil creature, which is often depicted as an emaciated skeleton. These spirits could possess a human's body and turn them to cannibalism.

ANSWER: **Wendigo** [or **windigo**]

[10] This being appears in stories from many Pacific Northwest tribes about fighting Whale. It creates its namesake phenomenon by dropping Whale into the ocean or by flapping its wings.

ANSWER: **Thunderbird** <Jacob O'Rourke>

12. Leyden jars are examples of these devices. For 10 points each:

[10] Name these electrical devices which often consist of two parallel plates. The namesake value of the parallel plate type of this device is proportional to the plate area and inversely proportional to the separation distance.

ANSWER: **capacitors**

[10] These insulating materials often separate the two plates of capacitors. Capacitance is proportional to these materials' namesake constant, which is just their relative permittivity.

ANSWER: **dielectrics**

[10] The SI unit of capacitance is named for this scientist, whose namesake “cage” is used as a shield from electromagnetic phenomena.

ANSWER: Michael **Faraday** <Alex Harmata>/<ed. Seth Ebner>

13. This family's members included Pope Leo X, and two members of this family were targeted by the Pazzi conspiracy. For 10 points each:

[10] Name this Italian banking family that ruled Florence during the late Renaissance.

ANSWER: **Medici** family [or House of **Medici**]

[10] This Medici ruler, along with his brother Giuliano, was the target of the Pazzi Conspiracy. This ruler was nicknamed “the Magnificent” and sponsored Botticelli and Michelangelo.

ANSWER: **Lorenzo** the Magnificent [**Lorenzo** de Medici; or **Lorenzo** il Magnifico]

[10] Lorenzo's grandfather was this man. He was the first member of the Medici family to run the Medici Bank and run Florence, and he commissioned Donatello to create his *Bronze David*.

ANSWER: **Cosimo** de Medici [**Cosimo** di Giovanni de Medici] <Cole Phinney>/<ed. Jacob>

14. Answer the following about the works of Edgar Allan Poe. For 10 points each:

[10] The title creature of this Poe poem appears on a bust of Pallas “once upon a midnight dreary.” That title creature of this poem mostly just says “nevermore!”

ANSWER: “The **Raven**”

[10] The narrator of this work smothers his vulture-eyed landlord. The narrator of this story later confesses after hearing the beating of the title object, which resembles a watch wrapped in cotton.

ANSWER: “The **Tell-Tale Heart**”

[10] This detective created by Poe figures out that Madame L’Espanaye and her daughter were murdered by an orangutan in “The Murders in the Rue Morgue.”

ANSWER: C. Auguste **Dupin** [or C. **Auguste** Dupin] <Sherry Xie>/<ed. Jacob>

15. Fouls are what differentiate professional basketball from street-ball. For 10 points each:

[10] This center would often be fouled and sent to the free throw line by opposing teams while winning 3 titles with Kobe Bryant and the Lakers. That strategy is called “Hack-a” this player.

ANSWER: Shaquille **O’Neal** [or **Shaq**; prompt on The **Big Aristotle** or The **Diesel**]

[10] This type of foul results in automatic ejection, 2 free throws, and possession. If I elbowed you in the face in a fit of rage, I’d be called for this foul.

ANSWER: **flagrant-2** foul [prompt on **flagrant** foul; do NOT accept or prompt on “flagrant-1 foul”]

[10] This type of offensive foul occurs off the ball when a player doesn’t reach a complete stop before contacting a defensive player. It can be caused by attempting to “roll” before completing the namesake action.

ANSWER: **moving screen** [or **moving pick**; or **illegal screen**; or **illegal pick**] <Alex Harmata>/<ed. Sean>/<ed. Jacob>

16. This man was presented with the head of Pompey by Ptolemy XIII after arriving at Alexandria. For 10 points each:

[10] Name this five-time dictator of Rome, who was assassinated in 44 BCE on the Ides of March by a group of Senators led by Brutus and Cassius.

ANSWER: Julius **Caesar** [Gaius Julius **Caesar**]

[10] During this battle, Caesar built a circling set of walls called a circumvallation. After this battle that ended the Gallic Wars, Vercingetorix surrendered to the Romans.

ANSWER: Battle of **Alesia** [or Siege of **Alesia**]

[10] Before crossing this river, Caesar allegedly declared that “the die is cast.” “Crossing” this river has since come to mean taking a step that commits a person to a certain course of action.

ANSWER: the **Rubicon** [or **Rubico**; or “Crossing the **Rubicon**”] <Dinis Trindade>/<ed. Jacob>

17. A play by this author centers on the dysfunctional Boyle family. For 10 points each:  
[10] Name this author of *Juno and the Paycock*, which appears in a trilogy along with *The Plough and the Stars* and *The Shadow of a Gunman*.

ANSWER: Sean **O'Casey** [or John **Casey**]

[10] O'Casey's plays often had their premiere in this city's Abbey Theatre. This city also titles a short story collection by James Joyce, which includes "Araby" and "The Dead."

ANSWER: **Dublin** [or **Dubliners**; or the **Dublin** Trilogy]

[10] Dublin's Abbey Theatre is located in this European country, which is home to Sean O'Casey.

ANSWER: **Ireland** [or **Eire**; or the **Irish Free State**] <Carrie Derner>/<ed. Jacob>

18. This man has been called "the greatest composer of Italian opera after Verdi." For 10 points each:

[10] Name this Italian composer of operas such as *Gianni Schicchi*, *La Boheme*, and *Turandot*.

ANSWER: Giacomo **Puccini**

[10] One of the most memorable pieces from *Turandot* is this tenor aria that translates to "None shall sleep." Placido Domingo and Luciano Pavarotti have both released popular singles of this aria.

ANSWER: "**Nessun Dorma**"

[10] After an illness caused Pavarotti to back out of performing at the 1998 Grammy Awards, this "Queen of Soul" and singer of "Respect" won praise for her performance of "Nessun Dorma."

ANSWER: Aretha **Franklin** [Aretha Louise **Franklin**] <Wenzer Qin>/<ed. David Dennis>

19. Waterspouts are a form of this phenomenon that develops over the sea. For 10 points each:

[10] Name these rotating air columns. A devastating one of these phenomena struck Joplin, Missouri in 2011, killing over 150 people.

ANSWER: **Tornadoes** [or **Twisters**]

[10] A telltale sign of a tornado is this signature on weather radar. This pendant-shaped signature is a result of air and precipitation flowing into a mesocyclone.

ANSWER: **hook echo**

[10] This Japanese-American studied hook echoes, and also developed a scale for measuring the intensity of tornadoes. The Joplin tornado was an F4 on his namesake scale.

ANSWER: Ted **Fujita** [or Tetsuya Theodore **Fujita**; or the **Fujita** scale] <Alex Harmata>/<ed. Jacob>

20. With Marcel-Paul Schutzenberger, this man names a hierarchy that consists of four grammar levels that range from unrestricted to regular. For 10 points each:

[10] Name this MIT linguist, who created the grammatically correct but nonsensical sentence “colorless green ideas sleep furiously.”

ANSWER: Noam **Chomsky** [Avram Noam **Chomsky**]

[10] The sentence “colorless green ideas sleep furiously” first appeared in this book by Chomsky, in which he emphasized clear and precise models of linguistic structure.

ANSWER: **Syntactic Structures**

[10] Chomsky was also known for reviewing and criticizing this psychologist’s work *Verbal Behavior*. This man invented both his namesake “Box,” as well as an air crib for his child.

ANSWER: B.F. **Skinner** [Burrhus Frederic **Skinner**] <Sherry Xie>/<ed. Jacob>

Extra

The Uros People live on 42 man-made islands in this lake. For 10 points each:

[10] Name this large lake between Peru and Bolivia. The Uros use balsa reeds growing in the lake and nearby Desaguadero River to manufacture the islands.

ANSWER: Lake **Titicaca**

[10] This city on the Persian Gulf has two man-made islands, Jumeirah and Jebel Ali, in the shape of palm trees. A third one is under construction.

ANSWER: **Dubai**, UAE

[10] The Flevopolder in this country is the largest artificial island reclaimed on water in the world. It was built from the Zuiderzee, a bay just north west of Amsterdam.

ANSWER: The **Netherlands** [or **Holland**; or the Kingdom of the **Netherlands**; or **Nederland**; or Koninkrijk der **Nederlanden**] <David Dennis>