

**Bulldog High School Academic Tournament 2018 (XXVII): After such knowledge, what forgiveness?**

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**Packet 3 Tossups**

1. **People with this title used a signature containing three vertical lines and were known as “the Shadow of God on Earth.” Rulers with this title sent potential opponents to the “Cage.” Smallpox inoculation was introduced to Europe by Lady Wortley Montagu, who was an ambassador to these people. In the 19th century, people with this title led the (\*) Tanzimat reforms. One of them won the Battle of Mohács. Rulers with this title consulted a “Divan” and were controlled by the Grand Vizier. One of them was nicknamed “the Conqueror” for the 1453 sack of Constantinople. Janissaries were the bodyguards of—for 10 points—what rulers that included Suleiman the Magnificent?**

ANSWER: **Ottoman Sultans** [prompt on partial answer; prompt on Ottoman Emperors; do not accept or prompt on “caliph,” “emir,” or “vizier”] <SPQR>

2. **A film in this language introduced the “unchained” camera techniques of tilting, panning, and tracking. In a film in this language, the protagonist sees a machine explode and hallucinates it as Moloch, with the workers marching into its mouth. That film in this language was the first to use mirrors to make miniatures look like huge sets, and cuts between (\*) Maria’s dance and kaleidoscope-like shots of the eyes of her audience. In another film in this language, a group of beggars take down a child predator who whistles “In the Hall of the Mountain King” by branding him with the title letter. For 10 points, name this language of *Metropolis* and *M*, used by F.W. Murnau and Fritz Lang.**

ANSWER: **German** [or **Deutsch**] (The first film is Murnau’s *The Last Laugh*.) <JR>

3. **One of this man’s plays ends with a man saying “People don’t do such things” upon discovering the protagonist’s suicide. Another of his plays, which is set around Christmas, ends with a man wondering about “the most wonderful thing of all.” One of his title characters wildly plays the piano in her offstage private room before (\*) shooting herself. One of this man’s protagonists is blackmailed by Judge Brack, after convincing Eilert Lövborg, the academic rival of her husband George Tesman, to kill himself. His most famous play ends after Nora Helmer slams the door on her husband Torvald. For 10 points, name this Norwegian author of *Hedda Gabler* and *A Doll’s House*.**

ANSWER: Henrik (Johan) **Ibsen** <MK>

4. **This specific mechanism is modelled as happening in reverse, in models of “coalescence.” Like inbreeding, this phenomenon gradually leads to loss of heterozygosity through fixation. Sewall Wright modelled this phenomenon, which dominates in Kimura’s neutral theory. The impact of this phenomenon is reduced by the large (\*) population assumption of the Hardy–Weinberg equilibrium. It is exacerbated after bottlenecks and in the founder effect. This mechanism is contrasted with both gene flow between populations and natural selection. For 10 points, name this mechanism of evolution in which sampling error magnifies random variation in allele frequencies.**

ANSWER: **genetic drift** [prompt on bottlenecks or founder effects before mentioned; prompt on molecular evolution] <JR>

5. **This man called for education vouchers and a volunteer military in a 1962 book. That book by this man attacks both the Bretton Woods system and medical licensing. This man built on the work of Franco Modigliani in his studies of the consumption function. With Edmund Phelps, he developed the idea of a (\*) natural rate of unemployment. This man proposed a negative income tax and thought that the money supply should grow by a fixed percentage each year. He emphasized monetary policy's role in causing the Great Depression in *A Monetary History of the United States*. *Capitalism and Freedom* is by—for 10 points—what Chicago School economist who founded monetarism?**

ANSWER: Milton **Friedman** <BY>

6. **A policeman on this show is framed for murder by Hannibal Bates, who realizes that he's forgotten what he used to look like. Its title character defeats an enemy by making an electrified underwater cyclone. On this show, Tom Cavanaugh has played several versions of one character, including one from Earth-2 and a novelist nicknamed (\*) "HR." Its villains include Savitar and a "Reverse" version of the protagonist who is defeated by the title character, Firestorm and the Green Arrow, and is named Eobard Thawne. A particle accelerator explosion at S.T.A.R Labs gives powers to Grant Gustin's character in—for 10 points—what CW show about Barry Allen, a fast superhero?**

ANSWER: *The **Flash*** <MK>

7. **The *opposite* of this word describes a "deep scattering" technique that was used to prove the existence of quarks. This word describes the linear portion of a stress-strain curve lying below the yield strength. Young's modulus, which gives the ratio of stress to strain in solid materials, is sometimes called this type of modulus. The kinetic theory of gases assumes that all (\*) collisions of particles are of this type, meaning that they conserve kinetic energy as well as momentum. Hooke's law describes deformation in materials of this type. For 10 points, what word describes materials like rubber bands that return to their original shape after a force is removed?**

ANSWER: **elastic** [or **elasticity**; accept **elastic** modulus or perfectly **elastic**] <SE>

8. **This deity discovers the ability to use magical items such as *fehu* [FAY-hoo], *uruz* [OOH-rooz], and *ansuz* [AHN-sooz]. He listens to a prophecy about the end of the world in an anonymous poem titled the *Völuspá* [VOH-loo-SPA]; in another text, this deity disguises himself as a trio of wise men named High, Just-As-High, and Third. In the *Grímnis-mál*, this god witnesses the reign of his cruel foster-son Geirröth ["GUY"-roth] from his high (\*) throne that allows him to see the entire world. This owner of Hlid-skjalf [H'LEED-sk'yahlf] also possesses the duplicating ring Draup-nir, and rides the eight-legged horse Sleip-nir. For 10 points, name this "all-father" from Norse mythology.**

ANSWER: **Odin** [or **Wotan**; or **Wodanaz**] <AF>

9. **This poem's first part describes "a million girls trembling in the sunset" and "the romance of the streets." Its Footnote calls "the groaning saxophone," "the vast lamb of the middle class," and many other things "Holy!" In a section that asks about a "sphinx of cement and aluminum" that "bashed open their skulls and ate up their brains and imagination," this poem repeats the name (\*) "Moloch!" In its third and last part, its speaker tells Carl Solomon "I'm with you in Rockland." Its opening laments the speaker's "starving hysterical naked" friends. The speaker "saw the best minds of my generation destroyed by madness" in—for 10 points—what poem by Allen Ginsberg?**

ANSWER: "**Howl**" <MK>

10. *Description acceptable.* **Two participants in this event were supposedly hidden when a spider spun a web covering the entrance to their cave overnight. “Helpers” during this event are called *ansar*. This event was followed by the writing of a Constitution that defined the *ummah*. The goal of this event was defended five years later in the Battle of the (\*) Trench. This event took place in 622 A.D., which became the starting point of a calendar. After this event, its destination of Yathrib was renamed. Abu Bakr was a main participant in this event, which was prompted by an assassination plot among the Quraysh. For 10 points, name this event in which Muhammad was forced to leave his hometown.**

ANSWER: **hijrah** [or **hegira**; accept any description indicating **Muhammad’s flight** from Mecca to **Medina**; accept answers describing **Muhammad’s flight** from Mecca to **Yathrib** until it’s mentioned] <HK>

11. **Overcrowding on this island was partially relieved through the “Transmigration program.” This island is namesake of the *slower* of two types of music that use the scales *pelog* and *slendro*. It’s the more southern of two islands that name a critically endangered species of rhinoceros. It’s home to the massive 9th-century temples of (\*) Prambanan and Borobudur. The first *Homo erectus* fossil was found on this island. In the 16th century, most of this island’s Hindus emigrated to neighboring Bali. Krakatoa is located between it and Sumatra. For 10 points, name this Indonesian island home to Jakarta.**

ANSWER: **Java** [or **Jawa**; accept **Java man**] <JR>

12. **MES is one of a group of 36 of these substances that satisfy criteria such as stability and minimal salt effect and are named for Norman Good. A shift in one of these chemical systems changes a protein’s binding affinity for oxygen in the Bohr effect. Citric acid forms systems of this kind with a high range of usability, since it has three very close (\*) p-K-a values. Bicarbonate forms one of these systems in the blood. The Henderson–Hasselbalch equation is often used to find the pH of these systems. They form in a shallowly-sloped “region” during titration of a weak acid or base, since the conjugate base or acid is also present. For 10 points, name these solutions that resist changes in pH.**

ANSWER: **buffer** solutions [accept **buffering region**; accept **Good’s buffers**] <AF>

13. **In this battle, some troops on the winning side weaponized the lead-covered mallets they’d used to build their fortifications. This battle’s winning commander may have composed its namesake “Carol.” This battle’s winning commander ordered all his prisoners executed after an attack on his baggage train. Its winning side put sharpened (\*) wooden stakes in the mud to neutralize the cavalry of Charles d’Albret. Like the earlier battles of Poitiers and Crécy, it was decided by Welsh longbowmen. Henry V won—for 10 points—what battle fought on St. Crispin’s day, 1415, during the Hundred Years’ War?**

ANSWER: Battle of **Agincourt** <SPQR>

14. **This composer’s Opus 9 has a main theme consisting entirely of rising fourths, is notated in E Major, and is a one-movement piece for 15 solo instruments. He founded a Society that privately performed chamber versions of works by his friend Gustav Mahler. This composer of two Chamber Symphonies used piano, violin, cello, flute, and clarinet to accompany a (\*) 1912 set of 21 songs, and his most famous work is for string sextet. He invented a kind of speech-song and taught Anton Webern [VAY-“bum”]. For 10 points, name this Second Viennese School composer of *Pierrot Lunaire* and *Verklärte Nacht* [“fair”-“CLAIRE”-tuh nahkht], who pioneered atonal music and created the twelve-tone system.**

ANSWER: Arnold **Schoenberg** [SHURN-behrg] <JR>

15. In this novel, a general fakes out an opposing army by emptying out a city, opening the gate, and sitting on the walls playing peaceful music. In this novel, a man who is recruited after three visits to the Thatched Cottage sends out empty decoy boats filled with straw to “borrow” the enemy’s arrows. A general in this novel pretends to use magic to summon a southeasterly wind, which allows his fleet to set the enemy ships on (\*) fire at the Battle of Red Cliffs. This novel begins with the Yellow Turban Rebellion, after which the Peach Garden Oath is sworn by Liu Bei. Cao Cao [tzaο-TZAO] stars in—for 10 points—what Luo Guanzhong novel titled for the feuding states of Wei, Shu, and Wu?

ANSWER: *The Romance of the Three Kingdoms* [or San Guo Yan Yi] (The general is Zhuge Liang.) <BY>

16. The endmember containing this element is the first plagioclase to crystallize and is called anorthite. A mineral containing this cat<sup>+</sup>ion forms travertine. This is the most common cat<sup>+</sup>ion in apatites, and is progressively substituted for sodium in the feldspar series. It’s present along with magnesium in (\*) dolomite. A mineral containing this cat<sup>+</sup>ion erodes to form karst topography. This is the cat<sup>+</sup>ion in the mineral with Mohs hardness 2, and this element names the mineral with Mohs hardness 3. It’s the most common cat<sup>+</sup>ion in stalactites and stalagmites, and its sulfate is known as gypsum. For 10 points, name this element whose carbonate forms limestone.

ANSWER: calcium-2-plus [accept Ca-2-plus] <AF>

17. A government in this modern-day country was abolished under the leadership of Frank Murphy. A president of this country declared martial law after the protests of the First Quarter Storm. The Jones Law was this country’s constitution until the passing of the Tydings–McDuffie Act, which gave it full independence. This mostly Catholic country’s Muslims revolted in the (\*) Moro Rebellion. After the People Power Revolution, a museum was created to house its First Lady’s thousands of shoes. A “Tagalog Republic” was founded after the capture of this country’s first president, Emilio Aguinaldo. Ferdinand Marcos once led—for 10 points—what Southeast Asian island nation?

ANSWER: Republic of the Philippines [or Republika ng Pilipinas] <MK>

18. A novel by this author consists of monologues by six friends of the deceased Percival interspersed with italicized descriptions of a seascape. A character created by this author compares the range of human thought to the alphabet and resents being stuck at “Q.” That novel by this author of *The Waves* ends as the Ramsay family sail to the title place and (\*) Lily Briscoe finishes a painting. The title woman of a stream-of-consciousness novel by this author admires the suicide of Septimus Smith. In an essay, she imagined “Judith Shakespeare” to show why women writers need the title space. For 10 points name this author of *To the Lighthouse*, *Mrs Dalloway*, and *A Room of One’s Own*.

ANSWER: (Adeline) Virginia Woolf <CK>

19. *Description acceptable.* One of these people is depicted in the *Diadumenos* of Polykleitos. Another of these people is depicted in the *Apoxyomenos*, or *Scraper* of Lysippos. A sculpture depicts one of these people with his left arm on his right knee, his left foot back, his whole body leaning forward, and his head turned back toward his right arm, which is thrown back (\*) holding the title object. Myron’s *Discobolus* depicts one of these people who, like gods and warriors, were almost always depicted nude. For 10 points, name this kind of competitor, one of whom Myron depicted throwing a discus.

ANSWER: athletes [accept Olympians; accept discus-thrower until the word “*Discobolus*”] <JR>

20. These people lost a namesake 1890 court case after their Perpetual Emigration Fund was outlawed by the Edmunds–Tucker Act. Reed Smoot, who names the tariff with Willis Hawley, was a prominent member of this group. John Lee and Isaac Haight organized a group of these people to attack the Baker–Fancher party. One of them was the defendant in *Reynolds v. U.S.* These people attempted to create the (\*) State of Deseret and perpetrated the Mountain Meadows Massacre. This group migrated west after their leader was killed in Nauvoo, Illinois, and eventually settled in Utah under Brigham Young. For 10 points, name this religious group first led by Joseph Smith.

ANSWER: **Mormons** [or **Latter-Day Saints**; or **LDS**] <AF>

*Tiebreaker*

21. In 1973, Boyer and Cohen made this organism express a gene from the frog *Xenopus*. This species's long-term evolution is studied in an experiment started in 1988 by Richard Lenski. An experiment on this organism compared ratios of nitrogen-14 and -15. This species was studied by Jacob and (\*) Monod and was used to show that DNA replication is semiconservative by Meselson and Stahl. This organism, which is infected by the lambda phage, was first used to study the *lac* operon. It makes Vitamin K as part of the gut flora, but its O157:H7 strain can produce deadly Shiga toxin. For 10 points, name this Gram-negative rod-shaped bacterium that can cause food poisoning.

ANSWER: ***E. coli*** [or ***Escherichia coli***] <HK>

## Bonuses

1. The destroyed rail lines left behind by this campaign were known as “neckties.” For 10 points each:

[10] Name this scorched-earth campaign of late 1864, which tore up the countryside between Atlanta and its namesake goal, the port of Savannah. It was led by William Tecumseh Sherman.

ANSWER: Sherman’s **March to the Sea**

[10] Sherman had earlier taken Atlanta from Joseph E. Johnston, who had earlier turned the tide at *this* 1861 battle. Irvin McDowell lost this battle in northern Virginia to P.G.T. Beauregard.

ANSWER: First Battle of **Bull Run** [accept First Battle of **Manassas**]

[10] Sherman’s army had been named for *this* river. That army named for this river had earlier fought under Ulysses S. Grant at Shiloh and Vicksburg, and shouldn’t be confused with a Confederate army named for a state.

ANSWER: **Tennessee** River [accept **Army of the Tennessee**; do **not** accept or prompt on “Army of Tennessee”]  
<SPQR>

2. This photographer has attracted controversy for her nude cover photos of a pregnant Demi Moore and an underage Miley Cyrus. For 10 points each:

[10] Name this photographer who was the first American to make an official portrait of Queen Elizabeth II. She’s best-known for photographing a nude John Lennon embracing his fully-clothed wife the day he was murdered.

ANSWER: Annie **Leibovitz** [or Anna-Lou **Leibovitz**]

[10] Lennon’s wife was this Japanese performance artist and musician. She wrote a book of “concepts” for artworks called *Grapefruit*.

ANSWER: Yoko **Ono** [accept names in either order; prompt on **Yoko**]

[10] Leibovitz has most recently photographed for this magazine edited by Anna Wintour. Richard Avedon started working for this magazine when he and Diana Vreeland left *Harper’s Bazaar*.

ANSWER: **Vogue** <JR>

3. An 1816 poem personifies this thing by claiming that it can be found “sitting careless” on the floor, its “hair soft-lifted by the winnowing wind.” For 10 points each:

[10] Name this addressee of an ode that describes it as a “Close bosom-friend of the maturing sun.”

ANSWER: **autumn** [accept **fall**; accept “**To Autumn**”]

[10] “To Autumn” was written by this English Romantic poet whose other odes include “Ode to a Nightingale” and “Ode on a Grecian Urn.”

ANSWER: John **Keats**

[10] Keats’ contemporary Percy Shelley described the addressee of *this* poem as a “breath of Autumn’s being.” This poem ends with the line, “If Winter comes, can Spring be far behind?”

ANSWER: “**Ode to the West Wind**” <MK>

4. This war included two invasions of a neighboring country’s Shaba province. For 10 points each:

[10] Name this lengthy war in which the communist MPLA defeated its rival UNITA.

ANSWER: **Angolan Civil** War [accept reasonable descriptions]

[10] The Angolan Civil War has often been dubbed this man’s “Vietnam,” since this leader was the main supporter of the MPLA, alongside the Soviet Union. This man took power after giving the “History Will Absolve Me” speech.

ANSWER: Fidel (Alejandro) **Castro** (Ruz)

[10] Castro was president of *this* Caribbean country, whose revolution was partly led by Che Guevara.

ANSWER: Republic of **Cuba** [or República de **Cuba**] <JR>

5. When these things are “inconsistent,” they give nonsense answers like “0 equals 1.” For 10 points each:

[10] Give this term for a set of multiple equations, which can be solved by adding or subtracting them from each other and then substituting in.

ANSWER: **system** of (linear) equations [or linear **system**]

[10] To solve a system of equations, it must have *this* property, in which no equation is algebraically equivalent to the others. A system will lack this property if one equation is a multiple of another.

ANSWER: **independence** [accept word forms like **independent**]

[10] A classic algorithm to solve linear systems is Gaussian elimination, in which you can only do three row “operations.” One of them is swapping two rows—name the other two. Rough descriptions are fine.

ANSWER: **multiplying** a row by a **constant** AND **adding** [or **subtracting**] a multiple of a **row** to another row <JR>

6. This author’s *The Childhood of Jesus*, naturally, does not include any characters named Jesus, Mary or Joseph. For 10 points each:

[10] Name this author whose novel *Elizabeth Costello* mainly consists of lectures given by the title writer. Professor David Lurie loses everything after having an affair with a student in his novel *Disgrace*.

ANSWER: J.M. **Coetzee** [or John Maxwell **Coetzee**]

[10] Coetzee wrote a novelistic reimagining of how Daniel Defoe came to write his novel about *this* man. This character meets the native Friday while cast away on a desert island.

ANSWER: **Robinson Crusoe**

[10] In Coetzee’s *Waiting for the Barbarians*, a man identified only by *this* specific job title defies the Third Bureau by taking in a girl from the title group.

ANSWER: **magistrates** <JW>

7. For 10 points each—answer the following about traditional Chinese musical instruments:

[10] The Chinese *yangqin* [yang-cheen] is this kind of percussion-stringed instrument, which is played with spoon-like mallets. An Eastern European instrument of this type is called the Cimbalom.

ANSWER: hammered **dulcimer**

[10] The Chinese *dizi* [DEE-tsu] is a woodwind instrument of this kind, which is held sideways. The piccolo is a small version of this instrument.

ANSWER: transverse **flute**

[10] The Chinese *erhu* [“ARE”-“who?”] is played with one of *these* devices, which are usually made with horsehair.

ANSWER: **bow** <JR>

8. Former French Prime Minister Robert Schuman gave a 1950 speech calling for a single authority to control French and German production of these two goods. For 10 points each:

[10] Name these two industrial goods whose production was regulated under a “European Community” that was the first step in postwar European integration.

ANSWER: **coal** AND **steel** [accept **European Coal and Steel Community**]

[10] The European Coal and Steel Community is considered a forerunner of this present-day organization, whose benefits include a common market and single currency.

ANSWER: **European Union** [or **E.U.**]

[10] The first president of the ECSC was this man, who then spearheaded the creation of what’s now the European Community. Unlike Robert Schuman, this man never held elected office.

ANSWER: Jean (Omer Marie Gabriel) **Monnet** <JR>

9. For 10 points each—identify the following elements that are readily produced by electrolysis:

[10] Electrolysis is needed to obtain the elemental form of this lightest halogen, since, as the most electronegative element, it is almost always found in molecular compounds.

ANSWER: **fluorine** [accept **F**]

[10] While this element is the most abundant metal in the Earth's crust, its pure form was rare until the development of the Hall-Héroult process, which extracts it from molten cryolite.

ANSWER: **aluminum** [accept **Al**]

[10] This element, which made up the cathode of the early Daniell cell, is purified from its "blister" ore in an electrolytic cell in which this element makes up both the anode and the cathode.

ANSWER: **copper** [accept **Cu**] <SE>

10. This state's portion of the Sierra Madre Occidental includes the massive Copper Canyon. For 10 points each:

[10] Name this large Mexican state home to Ciudad Juárez.

ANSWER: **Chihuahua**

[10] The primary river in Chihuahua is the Conchos, a tributary of *this* other river. This "large" river marks the border between Texas and Mexico.

ANSWER: Rio **Grande** [or Rio **Bravo** del Norte]

[10] This desert, partly located in Arizona and California, is the hottest in Mexico. This namesake desert of the state between Chihuahua and Baja California is home to the saguaro cactus.

ANSWER: **Sonoran** Desert [accept **Sonora**] <MK>

11. This figure laughed upon overhearing that she would bear a child at her old age, but lied when God confronted her about it. For 10 points each:

[10] Name this woman, who derived the name of her son Isaac from that incident.

ANSWER: **Sarah** [or **Sarai**]

[10] Sarah expelled this woman from her camp upon seeing how her son Ishmael mistreated Isaac. An angel showed this woman a well of water in the wilderness of Beersheba.

ANSWER: **Hagar**

[10] In Judaism, the Binding of Sarah's son Isaac is often referred to by *this* Hebrew name.

ANSWER: **Akedat** <MK>

12. An author from this state wrote about the Fairchild family in her novel *Delta Wedding*. For 10 points each:

[10] Name this home state of Eudora Welty, who also wrote *The Optimist's Daughter*. Another author from this state wrote about the Christ-like outcast Joe Christmas in *Light in August*.

ANSWER: **Mississippi** (The other author is William Faulkner.)

[10] In this other novel by Eudora Welty, boatman Mike Fink loses a bragging contest to Jamie Lockhart, the title character. In this novel, Lockhart later kidnaps Rosamund Musgrove, who manages to fall in love with him.

ANSWER: *The **Robber Bridegroom***

[10] *The Robber Bridegroom* was based on one of the many fairy tales compiled by this pair of German siblings, whose other tales include "Rapunzel" and "Hansel and Gretel."

ANSWER: Brothers **Grimm** [accept Jacob and Wilhelm **Grimm**] <MK>

13. To cheat death is a power only one has achieved, but, if you work together, you can answer the following about it, for 10 points each.

[10] When *this* character from Arthurian legend succeeds in the quest to find the Holy Grail, he is given the ability to choose the time of his death.

ANSWER: Sir **Galahad**

[10] In his namesake Mesopotamian epic, this king of Uruk states that if he and his friend Enkidu were to work together, they could also find the secret to eternal life.

ANSWER: **Gilgamesh** [or **Bilgames**; accept the *Epic of Gilgamesh*]

[10] When his lover fails to wish for eternal youth alongside immortality, Tithonus undergoes *this* fate, which renders him able only to make noises some consider to be unnatural.

ANSWER: he transforms into a chirping **insect** [sources differ on whether it's a **cricket** or a **cicada**, so accept anything in the spectrum of chirping insects] <EK>

14. These particles come in six “flavors,” though ordinary baryonic matter only contains the “up” and “down” types. For 10 points each:

[10] Name these elementary particles that make up protons and neutrons. Murray Gell-Mann got their name from a James Joyce novel that mentions “three” of them “for Muster Mark.”

ANSWER: **quarks**

[10] Quarks are fundamental particles of quantum chromodynamics, in which they are held together by the strong force. The strong force is mediated by *these* massless bosons.

ANSWER: **gluons**

[10] Quarks and gluons are very difficult to observe directly. Instead, QCD experiments usually measure these cone-shaped bursts of hadrons that are emitted from high-energy quark interactions.

ANSWER: **jets** <SE>

15. This character is first introduced when she beats Dustin’s *Dig Dug* high score by 100,000 points. For 10 points each:

[10] Name this character portrayed by Sadie Sink who initially rejects the attention of Dustin and Lucas, but ends up dancing with Lucas at the Snow Ball. Mike sees her as trying to infiltrate their group and ignores her.

ANSWER: **Maxine** Mayfield [accept **MADMAX**]

[10] Max’s video game alias in *Stranger Things*, **MADMAX**, is taken from a movie series whose 2015 entry is named for this kind of *Road*. Paul Walker and Vin Diesel star in a series titled for being *Fast* and *this*.

ANSWER: **fury** [accept *Mad Max: Fury Road* or *The Fast and the Furious*]

[10] This show parodied *Mad Max* in a plot in which Armothy drowns a king in a bathtub while the title characters argue about returning home. One of its title characters often burps during dialogue and turns himself into a pickle.

ANSWER: **Rick and Morty** <AF>

16. The central chapters of one of this philosopher’s books discuss “labor,” “work,” and “action,” which are all central to the life of activity. For 10 points:

[10] Name this Jewish philosopher who contrasted the *vita activa* with the *vita contemplativa* in the 1958 book *The Human Condition*.

ANSWER: Hannah **Arendt** [or Johanna **Arendt**]

[10] In 1951, Arendt published an analysis of the “origins” of *this* form of government, in which the state controls the public and private lives of its citizens. Arendt’s examples included the Third Reich and the Soviet Union.

ANSWER: **totalitarianism**

[10] Arendt studied and had an affair with *this* German philosopher, but was devastated when he turned out to be a huge Nazi. This man used the concept of *Dasein* [dah-ZEYN] to try to understand the nature of “Being” for humans.

ANSWER: Martin **Heidegger** <HK>

17. Edward Jenner first tested the theory behind these preparations using a milkmaid's cowpox sore. For 10 points:  
[10] Name these preparations whose modern versions include DTaP, MMR, and Gardasil, which are designed to inoculate against various diseases.

ANSWER: **vaccines**

[10] *This* effect shields the immunosuppressed and unvaccinated from infection, but it's only attainable if a certain proportion of the population is vaccinated; for measles, that percentage is somewhere from 92–95%.

ANSWER: **herd immunity** [prompt on herd effect, social immunity, or population immunity]

[10] Vaccines usually deliver bits of toxins, inactivated pathogens, or live pathogens. Live pathogens are delivered in *this* state, in which they're weakened by being cultured in eggs or other environments that make them harmless.

ANSWER: **attenuated** <HK>

18. This play forms a “trilogy of theater within the theater” with *Each In His Own Way* and *Tonight We Improvise*. For 10 points each:

[10] Name this 1921 play, in which The Father attempts to seduce The Step-Daughter in Madame Pace's shop. This play opens with a rehearsal of Luigi Pirandello's fictional play *Mixing It Up*.

ANSWER: ***Six Characters in Search of an Author*** [or ***Sei personaggi in cerca d'autore***]

[10] In Pirandello's other real play *Henry IV*, the protagonist imagines himself to be the title Emperor after falling off one of these animals. Shakespeare's Richard III cries out “my kingdom for” one of these animals.

ANSWER: **horses** [accept “**A horse, a horse**, my kingdom for a horse”]

[10] In Pirandello's *Right You Are (If You Think So)* Mr. Laudisi discusses insanity with one of these objects. In Sartre's *No Exit*, Inès offers to serve as one of these things for Estelle.

ANSWER: **mirrors** <CK>

19. A number of well-known artworks in this form were made in the Hiberno–Saxon style at monasteries like Kells and Lindisfarne. For 10 points each:

[10] Give this term for highly decorated Books of Hours and other volumes, which are the main surviving sources of medieval painting.

ANSWER: **illuminated manuscripts** [prompt on partial answer; prompt on codex, codices, books or similar answers]

[10] Illuminated manuscripts were often produced on vellum, a particularly fine variety of *this* kind of writing surface, which is made from animal skin.

ANSWER: **parchment** [prompt on animal membrane]

[10] Often, illuminated manuscripts and other books would include small decorations on the opening letters of sections, which are designated by *this* term. If they have tiny paintings inside of them, they're called “historiated.”

ANSWER: **initials** [prompt on drop caps] <JR>

20. This force supposedly cried “Thalatta! Thalatta!” meaning “The sea! The sea!” upon reaching the Black Sea. For 10 points each:

[10] Name this group of mercenaries, whose improbable return from the heart of Persia was celebrated in the *Anabasis*.

ANSWER: The **Ten Thousand**

[10] The Ten Thousand were hired by a man with *this* name. An earlier man with this name conquered Lydia and Media and was succeeded by Cambyses II.

ANSWER: **Cyrus** [accept **Cyrus the Younger** or **Cyrus the Great**]

[10] There were also ten thousand troops in the Persian unit called the Immortals, which played a major role at *this* battle. Leonidas I led 300 Spartans in a last stand at this battle.

ANSWER: Battle of **Thermopylae** <SPQR>

*Tiebreaker*

21. In France, this tax was called *la dime* and became mandatory in 1585. For 10 points each:

[10] Name this tax, which traditionally required one-tenth of a person's income to be paid to the church.

ANSWER: **tithe**

[10] Another French tax, the *gabelle*, was a duty on this commodity. In Rome, the port of Ostia was built to produce this commodity.

ANSWER: **salt**

[10] The *gabelle* was established by Philip VI, who became the first French king of *this* dynasty after the extinction of the Capetian line in 1328.

ANSWER: **Valois** <SPQR>