

Tossups

0. In this music video, its performer does donuts in an empty parking lot with a blue AMC Pacer. The performer in this song's music video wears a superhero costume that parodies the one worn in the video for "Lonely Swedish." Kathy Griffin, playing an attendant at a psych ward, lip-syncs to this song's opening lyrics. In this music video, Christina Aguilera is represented by a blow-up doll that a Carson Daly lookalike and the real Fred Durst argue over. A milk carton in this music video is printed with a picture of (*) Dr. Dre and a phone number containing the segments "1-800" and "LOST." This video features several factory-made clones of the artist nodding to the beat. This song's performer laments not being able to let loose on TV even though "it's cool for Tom Green to hump a dead moose," among many other things. For 10 points, name this Eminem video in which he calls for the title figure to "please stand up."

ANSWER: "The Real Slim Shady" <KG>

1. In a story by this author, two friends start fighting after one of them refuses to give the other his Turkish rifle, calling him a "goose." In another of his stories, a lieutenant follows a woman home who turns out to be married, while a painter follows a woman who turns out to be a prostitute, and later commits suicide after his marriage proposal is rejected. Those events are bookended by the narrator's description of the title (*) street. The protagonist of a story by this author makes a derogatory comment about secretaries, provoking a tongue-lashing from the "person of consequence" from whom he has sought help. After that protagonist dies and becomes a ghost, he steals an item of clothing from the general who had reprimanded him. For 10 points, name this author of "How the Two Ivans Quarreled" and "Nevsky Prospect," who wrote about Akaky Akakievich in "The Overcoat."

ANSWER: Nikolai Gogol [or Nikolai Vasilievich Gogol] <WN>

2. Accretion disks around compact objects in these systems can create microquasars, possibly explaining the observation of ultraluminous x-ray sources. This type of system may be inferred from a light curve that has periodic dips of different sizes. They may be classified into detached, semi-detached, or contact types depending on whether they exceed the (*) Roche lobe, a situation which may lead to mass transfer. Examples of them discovered by variations in proper motion are called astrometric, and the three other classes are spectroscopic, visual, and eclipsing. A pulsar system of this type that gives indirect evidence for gravitational waves is named for Hulse and Taylor. For 10 points, name these kinds of systems in which two stars orbit their common center of mass.

ANSWER: X-ray binary star systems <BM>

3. Xeroderma pigmentosum is unusually common among this tribe due to the bottleneck effect created by the American treatment of this tribe. The site of a battle won by this tribe is now called Narbona Pass after the victor, but was previously named after John M. Washington, whose troops killed a leader of this tribe named Narbona. The traditional dwelling of this tribe is the hogan. A series of wars named after this tribe included two battles at (*) Fort Defiance. Leaders of this tribe included Barboncito and Manuelito. Members of this tribe were forced to relocate to Bosque Redondo in the Long Walk. The most famous of World War II's "code talkers" were from this tribe. For 10 points, name this tribe of the Southwestern U.S.

ANSWER: Navajo [or Diné; or Naabeehó] <WN>

4. The third movement of a piece of this type is marked "Andante cantabile ma pero con moto" and is a set of variations on a theme in D major in 3/4 time. Brahms's third piece of this type is a C minor work whose third movement alternates between 3/4 and 2/4, and 9/8 and 6/8, and his first piece of this kind unusually starts in B major and ends in B minor. The 2/4 D minor second movement "Largo" of a piece in this genre may have

been intended as the overture to an opera adaptation of *Macbeth* and gives the piece its nickname due to its (*) spookiness. Dvorak's E minor fourth of these pieces is subtitled for a plaintive Slavic ballad known as a "dumka." Beethoven's pieces of this type include the "Ghost" as well as a B-flat major piece nicknamed for the dedicatee Rudolf of Austria, an archduke. For 10 points, name these pieces written for violin, cello, and a namesake keyboard instrument.

ANSWER: piano trios [prompt on "trios"] <AG>

5. This researcher took a historiometric approach to quantifying the achievements of leaders in various fields by assigning them "index scores." He formulated three laws, including the law of unintended rewards and the law of net harm, in a book which argues that welfare increases poverty; that book is about American social policy from 1950 to 1980. This author of *Human Accomplishment* and *Losing Ground* is better known for a book he (*) co-authored with the discoverer of the "matching law" in operant conditioning. That book used data from the ASVAB battery to argue that intelligence is largely heritable. That book was controversial for its claim that there is a genetic component to racial differences in intelligence. For 10 points, name this co-author, with Richard Herrnstein, of *The Bell Curve*.

ANSWER: Charles Murray <WN>

6. The Flury and Pitman-Moore L503 strains of this virus are used to make vaccines against it. One strain of this virus uses the Arctic fox as its main host. This virus gains entry through nicotinic acetylcholine receptors. Effective vaccines against this virus include the purified chick embryo culture and the human diploid cell vaccine. This bullet-shaped virus is produced in inclusion bodies found in hippocampal neurons and cerebellar Purkinje cells named for Adelchi Negri. This is the main virus in the (*) *Lyssavirus* genus of the *Rhabdoviridae* family of group V negative sense ssRNA viruses. The disease caused by this virus was treated in Jeanna Giese by putting her in a chemically-induced coma before administering antivirals in the experimental Milwaukee protocol, and was historically known as hydrophobia. For 10 points, name this virus that spreads through the nervous system after being transmitted through the bites of bats and other animals.

ANSWER: rabies virus <AG>

7. A ruler of this kingdom appointed Samuel ha-Levi as his treasurer, allowing his rival to denounce him as a sympathizer to Jews. That ruler was overthrown midway through the War of the Two Peters. This region's navy lost the Battle of Guinea during a war of succession that also included the Battle of Toro. A queen of this region had a prenuptial agreement supposedly summarized by the motto "Tanto monta, monta tanto." In this region, the execution of (*) Juan Bravo and Juan de Padilla, who opposed Adrian of Utrecht, followed the Battle of Villalar and ended the Revolt of the Comuneros. The dialect of Spanish spoken in Spain is sometimes named after this region. For 10 points, name this region of Spain whose queen Isabella married Ferdinand II, uniting it with Aragon.

ANSWER: Castile [or Castilla] <WN>

8. This river is the larger of two rivers featured in Samuel Fritz's 1707 map that, for some reason, also includes Lake Parime. The Viscount of Mauá established a steamboat service on this river. A tributary of this river is now named for Theodore Roosevelt, who visited it for two years after his loss in the 1912 presidential election. Henry Walter Bates's expedition to this river inspired him to develop his ideas of (*) Batesian mimicry. Seeking the "Land of Cinnamon," Francisco de Orellana led a west-to-east expedition along this river that ended at the island of Marajo. The dark Rio Negro meets the muddy Solimões, the upper portion of this river, at the city of Manaus. For 10 points, name this river named after a comparison between nearby settlers and the women warriors of Greek mythology.

ANSWER: Amazon River <KG>

9. A song composed by this man uses the rising semitones G, G sharp, A, A sharp, B at the end of the bridge, followed by an exact mirror going back into the A section. One of this man's albums depicts cities like Agra, Delhi, and Isfahan that he visited on a world tour. Late in his life, this musician frequently collaborated with the Swedish singer Alice Babs. This composer of "Prelude to a Kiss" had tenor saxophonist Paul Gonsalves play a twenty-seven chorus solo in the middle of his 1956 (*) Newport Jazz Festival rendition of "Diminuendo and Crescendo in Blue." The film *Black and Tan Fantasy* features this man's orchestra, which was the house band of Harlem's Cotton Club, and played a signature tune composed by Billy Strayhorn about a New York subway line. For 10 points, name this jazz bandleader whose orchestra played "Take the 'A' Train," nicknamed the "Duke."

ANSWER: Duke Ellington [or Edward Kennedy Ellington] <AG>

10. A character with this physical feature clips letters out of newspapers to direct a military commander to Colaba Causeway, where his wife is having an affair. Julia sends her brother Julio to fetch a character with this feature whose visit to Strasbourg leaves the town in disarray. A character who drags Montfleury offstage during a performance of "Clorise" shares this feature with Diego, the star of Hafen Slawkenbergius's tale in *Tristram Shandy*. Mary (*) Pereira switched a telepathic character with this feature at birth with his brother, who has enormously powerful knees. A character with this feature who duels Valvert while composing a ballade reflects on his panache before his death and writes love letters to Roxane on behalf of Christian. For 10 points, name this physical feature possessed by Saleem Sinai in *Midnight's Children*, and by Cyrano de Bergerac.

ANSWER: they have large nose [accept synonyms for large; accept anything that suggests they have prominent noses] <AG>

11. In the *Theogony*, these figures are siblings of the Keres, which were sometimes referred to as the "black" version of these figures. In one story, these figures persuaded Typhon to eat fruit from the slopes of the mountain Nysa, telling the monster that doing so would afford him great strength. According to Pindar, they accompanied the titaness Themis to Olympus for her wedding to Zeus, although in another story they are (*) her offspring. These goddesses, who were often accompanied by the childbirth goddess Eileithyia, killed Agrius and Thoon with their bronze clubs during the Gigantomachy. They appeared to Althaea three days after Meleager's birth to prophesy that the boy's life would be tied to a firebrand in the family hearth. For 10 points, name these goddesses who were frequently depicted as three old women who spun, allotted, and cut the thread of life.

ANSWER: Fates [or Moirai; or Moirae; or Clotho, Atropos, and Lachesis; accept names in any order, but all three are required; accept Aisa in place of "Atropos"] <JM>

12. A painter from this city depicted a floating Agostino Novello preventing several accidents. Eight angel candelabras were produced for this city's cathedral by the Mannerist painter Domenico Beccafumi. This city is home to a painting surrounded by twenty medallions that shows the Madonna and Child under a red canopy. Another painter from this city showed six angels on a gold background flanking the throne of a black-robed Virgin Mary in his (*) *Rucellai Madonna*. This city is home to a painter who frequently collaborated with his brother-in-law, Lippo Memmi. Some of this city's patron saints, including Ansanus and Sabinus, are depicted in the main panel of a monumental altarpiece called the *Maestà*. For 10 points, name this Tuscan city, a rival of Florence home to Simone Martini and Duccio.

ANSWER: Siena <KG>

13. This man was initially disfavored in the succession struggle resulting from his father's death, because he dressed badly and threw incense at the funeral. After leading a siege which ended in the capture of a mountaintop castle, this man renamed the castle, the nearby village, and the province, naming them all Gifu. His innovative military techniques included setting up his gunmen behind a wooden palisade in three ranks, so that their volleys would not be delayed by reloading. He used that strategy at a battle where his (*) arquebusiers contributed to the defeat of the Takeda clan. This winner of the Battle of Nagashino was forced to

commit suicide by Akechi Mitsuhide in the Honno-ji incident. For 10 points, name this unifier of Japan who was succeeded by Toyotomi Hideyoshi and Tokugawa Ieyasu.

ANSWER: Oda Nobunaga <WN>

14. Common scales for measuring this property include those named for Kyte-Doolittle and one derived by Wimley and White. The dyes ANS and bis-ANS bind to molecules and fluoresce on the basis of this property. The Lotus effect is caused by the “super” form of this property due to high contact angles. Reversed phase chromatography takes advantage of a stationary phase with this property to (*) separate molecules. A solvation layer forms around molecules with this property in solution. Protein aggregation is driven by interactions of patches with this property. Amino acid residues with this property are buried in the interior of a protein. The side chains of alanine and leucine have this property, as do phospholipid tails stuck in the interior of the lipid bilayer. For 10 points, name this property where molecules appear to repel water.

ANSWER: hydrophobicity [accept hydropathy or hydrophilicity until “ANS” is read; prompt on being nonpolar or lacking polarity] <SD>

15. Herman Philipse wrote a manifesto defending this position. A philosopher most famous for defending this position held a salon which Jean-Jacques Rousseau called his “coterie,” and may be the basis for the character of Wolmar in Rousseau’s *Julie*. The fact that he held this position is practically all that we know about the ancient Greek philosopher Diogenes. This position was famously laid out in the book *The System of* (*) *Nature*, by the Baron d’Holbach. Johann Gottlieb Fichte was forced to resign from Jena after being accused of holding this position. The so-called “Four Horsemen” who are famous for defending this position include Sam Harris and Christopher Hitchens. For 10 points, name this philosophical position, which holds that deities do not exist.

ANSWER: atheism [prompt on “anti-religion” or similar answers; prompt on “materialism”] <WN>

16. One of these animals must be burned with a combination of crimson wool and cedar wood, among others. In a religious text, a part of one of these animals was used to beat a murder victim, bringing him back to life. The Mount of Olives was the site of a ritual sacrifice of a red one of these animals that was used to purify a person who came in contact with a corpse. A figure of one of these animals was burnt, ground into powder, and scattered into water that the Israelites were forced to drink. A (*) passage named for this animal includes a verse that describes Allah’s throne extending over the heavens and the earth. The longest surah of the Qu’ran is named for this animal. Seven of these animals eat seven fatter ones in one of Pharaoh’s dreams. For 10 points, name this animal, an idol of which was worshiped by the Israelites while Moses retrieved the Ten Commandments.

ANSWER: cows [or calves; or cattle; or heifers] <KG>

17. In a poem by this author, Nature itself says of an ugly landscape that “the Last Judgment’s fire must cure this place, calcine its clods and set my prisoners free.” The speaker of a poem by this author is unable to “see with your eyes, and set my heart / Beating by yours, and drink my fill / At your soul’s springs,” plaintively declaring: “Only I discern - Infinite passion, and the pain / Of finite hearts that yearn.” The speaker of a poem by this author is guided by a “hoary (*) cripple, with malicious eye.” The title of that poem is taken from a nonsense phrase spoken by Tom O’Bedlam in *King Lear*. In a poem by him, an emissary sees a bronze statue of Neptune cast by Claus of Innsbruck and learns of a woman with a “heart too soon made glad.” For 10 points, name this English poet of dramatic monologues like “Childe Roland to the Dark Tower Came” and “My Last Duchess.”

ANSWER: Robert Browning <AG>

18. Vladimir Arnold’s definition of Galilean structure is a four dimensional affine space plus a function given this name which maps \mathbb{R}^4 to \mathbb{R} . The correlation function in the LSZ reduction formula usually includes a symbol that orders the operators according to this quantity. The exponential of negative i times the

Hamiltonian times this quantity over \hbar is a unitary operator which determines how the system depends on this quantity. Virtual particles may violate conservation of energy provided the uncertainty in energy times uncertainty in this quantity is less than \hbar over two. The form of this value that is constant in all reference frames is called “proper,” and this zeroth coordinate of Minkowski space is, in general, dilated by a factor of gamma. For 10 points, name this dimension which is measured in seconds.

ANSWER: time <BM>

19. In one appearance, this character is first encountered cutting down trees with the names of people like Crowninshield and Deacon Peabody written on them; he later attaches an apron containing a woman’s heart and liver to another tree. In another appearance, this character reads another’s palm, predicting that his sons will die in battle and that he will be called a turncoat. This character’s opponent gives a (*) speech about how things like the taste of food when you’re hungry are good things that sicken without freedom. Blackbeard and Simon Girty are members of a jury chosen by this character, who is defeated by a famous statesman in the trial of Jabez Stone. For 10 points, name this character who makes a deal with Tom Walker in a Washington Irving story, and who is opposed by Daniel Webster in a Stephen Vincent Benét story.

ANSWER: the Devil [or Old Scratch; or Mr. Scratch] <WN>

20. After being refused a position in this organization, George Gorham controversially appealed to the Privy Council. A speech by Benjamin Hoadly sparked another controversy within this organization, known as the Bangorian Controversy. The Prebendaries’ Plot tried to oust a leader of this organization. Some members of this organization started the (*) nonjuring schism by refusing to swear oaths of allegiance. The Millenary Petition complained about some of this organization’s practices, leading to a meeting between members of this organization and the king at Hampton Court Palace. Martin Marprelate wrote pamphlets attacking members of this organization. In 1645, the head of this church, William Laud, was executed. For 10 points, name this church founded by Henry VIII.

ANSWER: Church of England [or Anglican Church] <WN>

Tiebreaker: Robert Paul Wolff wrote a Marxist critique of this philosopher called *Understanding* [this philosopher]. This philosopher suggested there are some concerns which are appropriate for private decision making but inappropriate for public decision making, arguing that the latter should be carried out according to what he called “public reason.” That argument appears in a 2001 book by him subtitled “A (*) Restatement” which revisits his most important book. That book proposes that people would adopt a maximin strategy in a hypothetical situation in which everyone is blind to facts about themselves because they are behind a “veil of ignorance.” For 10 points, name this philosopher who wrote *A Theory of Justice*.

ANSWER: John Rawls <WN>

MLK 2016: Amusing Subtitle

Packet 9

Bonuses

1. This skull was blown into two pieces by Robert Broom’s dynamite. For 10 points each:

[10] Name this skull found in South Africa by Broom and John T. Robinson, whose nickname suggests that it belonged to a woman, although its sex is unclear.

ANSWER: Mrs. Ples

[10] Mrs. Ples is a specimen of this species, which is thought to be an ancestor of modern humans. Raymond Dart discovered the Taung Child, another specimen of this species, in South Africa.

ANSWER: Australopithecus africanus

[10] Perhaps the most famous African *Australopithecus* find is this *Australopithecus afarensis* specimen found in Ethiopia, named after a woman from a Beatles song.

ANSWER: Lucy [or AL-288-1; or Dinkinesh] <WN>

2. Before this event can occur, one participant must capture a bear and a wolf, bring back a pike, and plough a field of vipers. For 10 points:

[10] Name this event. At a feast during it, beer is served from barrels bound with hoops of copper, as well as meat from a giant ox that had previously been slaughtered.

ANSWER: Ilmarinen's wedding to the Maiden of the North [accept equivalents like the marriage of Ilmarinen; accept Maiden of the North's wedding]

[10] This other hero is annoyed because he wasn't invited to the wedding. A herdsman summons a snake to kill him while he was hunting the Swan of Tuonela, but his mother reassembled the pieces he was cut into.

ANSWER: Lemminkäinen [or Lemminki; or Kaukomieli; or Ahti]

[10] In Finnish mythology, Tuonela is one of these locations where the spirits of the dead go.

ANSWER: underworlds [accept hells] <SD>

3. Through the Grenelle Agreements, this leader guaranteed a 35% minimum wage increase. For 10 points each:

[10] Name this longest-serving Prime Minister of France, who broke with his presidential predecessor, Charles de Gaulle, after the May 1968 student protests.

ANSWER: Georges Pompidou

[10] This president, Pompidou's successor, had to deal with the aftermath of the 1973 oil crisis. Abortion was legalized and the death penalty was abolished under his tenure.

ANSWER: Valéry Giscard d'Estaing [prompt on "d'Estaing"]

[10] Pompidou and Giscard both promoted the development of TGV, an infrastructure program of this kind. Japan's Shinkansen was an early example of this kind of transport, which was brought to the U.S. with Amtrak's Acela Express.

ANSWER: high-speed rail [accept high-speed trains and obvious equivalents; prompt on just "rail" or "train"] <KG>

4. This country's first leader after gaining independence proposed five nationalist principles called the Pancasila. For 10 points each:

[10] Name this country where Ahmad Dahlan's Muhammadiyah movement advocated keeping Islam orthodox.

ANSWER: Indonesia [or Republic of Indonesia; or Republik Indonesia]

[10] This idea is stated as the first principle of the Pancasila. In Islam, the Shahada is a proclamation that expresses this idea.

ANSWER: monotheism [accept descriptive answers, such as "the belief of only one God"]

[10] Clifford Geertz observed these two groups of Javanese; one was made of urban, orthodox Muslims, while the other was primarily rural and syncretized Hindu, Muslim, and animist beliefs. Name either.

ANSWER: santri or abangan <KG>

5. Some infrared divergences cause this quantity to diverge at for very forward angles, but that's okay as long as this quantity's integral is finite. For 10 points each:

[10] Name this quantity which is equal to the square modulus of the scattering amplitude.

ANSWER: differential cross-section [do not prompt on cross section]

[10] The differential cross-section for this classical process diverges due to the fourth power of sine of theta over two in the denominator. This type of scattering on some gold foil helped its formulator to disprove the plum pudding model.

ANSWER: Rutherford scattering

[10] The divergence of forward scattering occurs because charged particles feel Coulomb force no matter what their value for this quantity. This quantity is defined as the closest two particles would be in a scattering process if there were no force to deflect them.

ANSWER: impact parameter <BM>

6. Donald Smith drove this railway's last spike in Craigellachie, British Columbia. For 10 points each:

[10] Name this transcontinental railway in Canada, completed in 1885.

ANSWER: Canadian Pacific Railway [or CP Railway]

[10] This Canadian historian wrote about the completion of the CP Railway in his books *The National Dream* and *The Last Spike*. His many, many books about Canadian history include a thousand-page history of the War of 1812.

ANSWER: Pierre Berton [or Pierre Francis de Marigny Berton]

[10] This drunkard and first Prime Minister of Canada took bribes from Hugh Allan, whose company was angling for the contract to build the railway, leading to this man's resignation in the Pacific Scandal.

ANSWER: John A. Macdonald [or Sir John Alexander Macdonald] <WN>

7. Tomás Rodaja comes to believe that his body is made of glass in this collection's story "The Lawyer of Glass."

For 10 points each:

[10] Name this collection of twelve novellas including "Rinconete and Cortadillo" and "The Jealous Extremaduran."

ANSWER: Exemplary Novels [or Novelas ejemplares]

[10] In this tale from Cervantes' *Exemplary Novels*, a man suffering from venereal disease witnesses, in his delirium, the title discussion about the follies of mankind.

ANSWER: "The Conversation of the Dogs" [or "El coloquio de los perros"; accept similar translations, like "The Dogs' Dialogue"; or "Dialogue between Scipio and Berganza"]

[10] Cervantes is best known for creating this character, whose obsession with chivalrous romances leads him on a bunch of adventures which his squire, Sancho Panza.

ANSWER: Don Quixote [accept either name of Alonso Quijano] <WN>

8. Software executes system calls to the kernels of these pieces of software. For 10 points each:

[10] Name these systems that interface between a computer's software and hardware. Their examples include Windows and Linux.

ANSWER: OSes [or operating systems]

[10] The unusable GNU Hurd kernel is an example of a microkernel, which contrasts with this type of kernel. This type of kernel is used by Linux and, in 1992, was claimed to already be obsolete by Andrew Tanenbaum.

ANSWER: monolithic kernel

[10] Operating systems are responsible for providing interfacing for the standard streams specified by the C standard library. Name any one of the three I/O standard streams.

ANSWER: stdin or stdout or stderr [or standard input stream; or standard output stream; or standard error stream] <BM>

9. The keys of B-flat and E alternate in this movement, whose interplay between 6/8 and 3/4 was influenced by the "Dance of the Marionette" from the composer's *Japanese Suite*. For 10 points each:

[10] Name this scherzo, the third and shortest movement of a seven-movement suite.

ANSWER: "Mercury, the Winged Messenger"

[10] "Mercury" is from this composer's *The Planets*.

ANSWER: Gustav Holst [or Gustav Theodore Holst; or Gustavus Theodore von Holst]

[10] This English conductor premiered *The Planets*, transformed the BBC Symphony Orchestra into a major player on the international stage in his twenty years of conducting it, and championed modern English music.

ANSWER: Adrian Boult [or Sir Adrian Cedric Boult] <AG>

10. The ninth section of this poem consists of a set of one-line stanzas in perfect unrhymed hendecasyllables, beginning “Sidereal eagle, misty vine / Lost bastion, blind scimitar.” For 10 points each:

[10] Name this twelve-part poem that makes up the second canto of its author’s *Canto General*. It urges the reader to “rise up in birth with me, my brother.”

ANSWER: “The Heights of Machu Picchu” [or “Las Alturas de Machu Picchu”]

[10] This Chilean communist poet wrote *Canto General* and *Twenty Love Poems and a Song of Despair*.

ANSWER: Pablo Neruda [or Ricardo Eliecer Neftali Reyes Basoalto]

[10] The poems “Amor America,” “Vegetation,” “Some Beasts,” “The Birds Arrive,” “The Rivers Come Forth,” “Minerals,” and lastly, “Man,” make up a creation myth in this first section of *Canto General*.

ANSWER: “A Lamp on Earth” [or “La Lámpara en la Tierra”] <AG>

11. In this character’s first appearance, he is holding a care package. For 10 points each:

[10] Name this soldier, who appears in a series of paintings created between 1941 and 1946.

ANSWER: Willie Gillis Jr. [accept either name]

[10] The creator of Willie Gillis also painted the *Four Freedoms* series, including *Freedom from Want*, which shows a family gathered together as a woman places this food item on the table.

ANSWER: a turkey

[10] The aforementioned series are by this longtime creator of the cover images for the *Saturday Evening Post*.

ANSWER: Norman Rockwell [or Norman Percevel Rockwell] <WN>

12. A period known as the Twenty Years’ Anarchy preceded the rule of this dynasty. For 10 points each:

[10] Name this Byzantine dynasty whose first ruler, Leo III, banned the worship of religious icons.

ANSWER: Isaurian dynasty

[10] Leo III’s son, Constantine V, was married to a ruler of these people, which is why Constantine V’s son, Leo IV, is nicknamed after them. These people’s capital, Atil, was sacked in 968.

ANSWER: Khazars

[10] The decline of the Isaurians coincided with this Frankish leader being crowned the first Holy Roman Emperor by a different Leo III on Christmas Day, 800.

ANSWER: Charlemagne [or Charles the Great; or Carolus Magnus; prompt on “Charles”] <KG>

13. This philosopher’s studies under both Karl Weierstrass and Franz Brentano influenced his first book, *Philosophy of Arithmetic*. For 10 points each:

[10] Name this German philosopher who adopted the Greek skeptics’ technique of *epoché*, or bracketing.

ANSWER: Edmund Husserl [or Edmund Gustav Albrecht Husserl]

[10] Husserl wrote a book inspired by this philosopher’s *Meditations on First Philosophy*. This philosopher famously posited “I think, therefore I am.”

ANSWER: René Descartes

[10] In *Logical Investigations*, Husserl examined the relationship between wholes and parts, the study of which is known by this name. In this field, objects which are not made of indivisible atoms are called “gunk.”

ANSWER: mereology <WN>

14. Several of this author’s poetry collections were combined into the book *Empire of Dreams*. For 10 points each:

[10] Name this Puerto Rican author of postmodern works like *Yo-Yo Boing!* and *United States of Banana*.

ANSWER: Giannina Braschi

[10] *United States of Banana* updates the play *Life Is a Dream* by having Segismundo imprisoned in this landmark, whose base displays a poem stating “Give me your tired, your poor, your huddled masses yearning to breathe free.”

ANSWER: Statue of Liberty

[10] The Statue of Liberty talks to the statue of Diana at Madison Square Garden in a story by this author. He wrote a story in which Johnsy decides she will die when the last leaf falls from a vine, as well as “A Retrieved Reformation.”

ANSWER: O. **Henry** [or William Sydney **Porter**] <WN>

15. This sculpture inspired the pose of Watson in Copley’s *Watson and the Shark*. For 10 points each:

[10] Name this erroneously named sculpture signed by Agasias, which is viewed in candlelight by three men in a Joseph Wright of Derby painting.

ANSWER: the **Borghese Gladiator**

[10] Scipione Borghese’s collection includes many sculptures by this artist, including *Truth Unveiled by Time*. Rays of gold appear to shine down on his *The Ecstasy of Saint Theresa*.

ANSWER: Gian Lorenzo **Bernini**

[10] This other sculptor’s *Venus Victrix*, which was commissioned by Pauline Bonaparte, now resides in the Borghese Gallery.

ANSWER: Antonio **Canova** <KG>

16. This governor called off the execution of Richard Glossip at the last minute. For 10 points each:

[10] Name this current governor of Oklahoma, who is also the state’s first female governor.

ANSWER: Mary **Fallin**

[10] Richard Glossip was the plaintiff in a case that ruled that this practice, when carried out using a three-drug mixture containing midazolam, did not constitute cruel and unusual punishment.

ANSWER: **lethal injection** [prompt on “**execution**,” “**death penalty**,” or similar answers]

[10] Fallin was the center of controversy in April 2014 after she pushed for the execution of this man via an untested mixture of drugs. This man died of a heart attack minutes after the drug cocktail failed to kill him.

ANSWER: Clayton **Lockett** <KG>

17. One of her sons is the founder of Conservapedia, which among other things asserts that $E=mc^2$ is “liberal claptrap.” For 10 points each:

[10] Name this woman, who founded the Eagle Forum and wrote *A Choice, Not an Echo* in 1964. She headed a movement to “Stop Taking Our Privileges.”

ANSWER: Phyllis **Schlafly**

[10] Schlafly’s STOP campaign was successful against this piece of legislation co-authored by Alice Paul. It received 35 ratifications, just short of the 38 it needed to become law.

ANSWER: **E**qual **R**ights **A**men~~de~~ment

[10] The other co-author of the Equal Rights Amendment was this woman, who founded the socialist magazine *The Liberator* with her brother Max. She also co-founded the ACLU.

ANSWER: Crystal **Eastman** <NC>

18. If you break a nation’s nationality, “it will think of nothing else but getting it set again,” observes one of these works by this author written “for politicians.” For 10 points each:

[10] Name these discursive author-specific pieces of nonfiction, such as one that analyzes the Gospels and concludes that Jesus’s teachings died with him, and another titled “First Aid to Critics.”

ANSWER: **prefaces** to George Bernard **Shaw**’s plays [or **prefaces by Shaw**; accept synonyms for prefaces, such as **Shaw introductions**]

[10] “First Aid to Critics” prefaces a play by Shaw in which this organization receives sizable donations from whiskey tycoon Horace Bodger and munitions manufacturer Andrew Undershaft.

ANSWER: **Salvation Army**

[10] Shaw quipped that “the English have no respect for their language” in his preface to this play about Henry Higgins’s efforts at reforming the speech of the Cockney flower girl Eliza Doolittle.

ANSWER: Pygmalion <AG>

19. This man is the alphabetically second namesake of a class of compounds described by the Green-Rooney and Cossee-Arlman mechanisms. For 10 points each:

[10] Name this German scientist who is one of the namesakes of a catalyst used in polymer chemistry and olefin metathesis reactions.

ANSWER: Karl Ziegler

[10] The Wohl-Ziegler reaction uses NBS to add this halogen to a hydrocarbon. Along with mercury, it is a liquid at room temperature, and it has chemical symbol Br.

ANSWER: bromine

[10] Ziegler also names a modification of this reaction in which nitriles undergo a base catalyzed self condensation to produce enamines.

ANSWER: Thorpe reaction [accept Thorpe-Ziegler reaction or Ziegler-Thorpe reaction] <SD>

20. This disaccharide is cleaved by beta-galactosidase into glucose and galactose. For 10 points each:

[10] Name this sugar that gives its name to a commonly studied operon. People who can’t digest this sugar suffer from its namesake intolerance.

ANSWER: lactose

[10] The lac repressor protein is under this type of regulation, because the effector molecule binds to the repressor in a domain other than its DNA binding domain, causing it to change conformations.

ANSWER: allosteric [accept word forms like allosterically regulated]

[10] By simultaneously binding to two operator sites, the lac repressor protein inhibits DNA transcription by causing the DNA to adopt this kind of structure.

ANSWER: loops [accept DNA looping] <SD>

Tiebreaker: This island was wrested from French control after an invasion at Cap Malheureux. For 10 points each:

[10] Name this island where, a few months before, the French convincingly defeated the British at the Battle of Grand Fort.

ANSWER: Mauritius

[10] The Dutch arrival at Mauritius led to the extinction of this flightless bird.

ANSWER: dodo [or Raphus cucullatus]

[10] After circumnavigating Australia, this British explorer was imprisoned on Mauritius for six years during the height of the Napoleonic Wars.

ANSWER: Matthew Flinders <KG>