

FACTS

Edited by Ryan Golant, Jakob Myers, Clark Smith, and Shrayus Sortur

PACKET 09

Editors 5 (TJ + CSW)

TOSSUPS

1. One play by this author features two lovers who can't marry each other after Hermogenes and Leonidas lie to them about their royal heritage. A poem by this author focuses on the rebellion of David's son, which ultimately ends with his death after catching his hair in a tree branch; that poem is *Absalom and Achitophel*.

(* Though not Shakespeare, this author wrote a play that details the last hours of the lives of Mark Antony and Cleopatra, *All for Love*. For 10 points, name this first poet laureate of England who wrote *Marriage-a-la-mode* and *Mac Flecknoe* and who was nicknamed "Glorious John" by Walter Scott.

Answer: John Dryden

2. These particles interact with electrons in matter in the MSW effect. The DONUT experiment discovered the last of these particles, while the Homestake experiment measured only one third of the predicted amount of these particles emitted by the sun, an anomaly later explained by the (*) flavor oscillation of these particles. In 2011, faulty data from the OPERA experiment showed these particles travelling faster than the speed of light, and due to their small masses, these particles were once thought to be massless. For 10 points, give these neutral fermions that interact only via the weak force and gravity, and that come in electron, mu, and tau varieties.

ANSWER: neutrinos [accept electron neutrinos, mu neutrinos, or tau neutrinos; prompt on "fermions"]

3. Saladin asks a character from this work to decide which Abrahamic religion provides true wisdom, but that man deflects the question with a story about a merchant's precious ring. In another tale from work, a visitor to the Bridge of Geese is inspired to deal with his unruly wife after witnessing a herder beat his mule (*), and Federigo wins the affections of a lady by cooking his pet falcon for her. Apart from Fiammetta narrative, Dioneo's story of Griselda in this work served as an inspiration for the *Clerk's Tale* by Geoffrey Chaucer. For 10 points, name this 14th-century collection in which a brigado of Florentines tell stories while fleeing the Black Death, written by Giovanni Boccaccio.

ANSWER: *The* Decameron

4. *Description acceptable*. A 2017 study of red-eyed tree frogs found that this event led to greater diversification in the Natatanura clade. Fieldwork conducted at Seymour Island in Antarctica supports one theory regarding this event that pinpoints gases from the Deccan Traps as a possible cause, while high concentrations of (*) iridium detected in soil samples led Luis Alvarez to formulate an alternative explanation for this event. Samples of shocked quartz collected from the Chicxulub crater undermined the volcano theory and suggested that an asteroid may have caused this event that ended the Mesozoic Era. For 10 points, name this event which occurred about 65 million years ago and killed off such reptiles as the T. Rex.

ANSWER: extinction of the dinosaurs [accept the Cretaceous-Tertiary extinction event, the K-T extinction, or the K-T boundary; accept descriptive answers involving dinosaurs and extinction]

5. Note to moderator: emphasize “PERSON” in the first line of this question to avoid a potential confusion.

This philosopher stated that a PERSON is always “prey to his passions” to the point that he is like a slave to them in Part IV of his most famous work. By viewing everything *sub specie aeternitatis*, or “from an eternal perspective,” this thinker sought precision akin to that of Euclid’s *Elements*. Contra Descartes’ dualism, he was the first neutral monist of note. Wittgenstein used (*) “*Tractatus*” for a title to mirror this thinker’s *Tractatus Theologico-Politicus*, and a later work by this man inspired Wittgenstein’s use of numbered propositions with its layout “in geometrical order.” For 10 points, name this thinker who equated God with Nature in his *Ethics*, a Jewish pantheist.

ANSWER: Baruch Spinoza [or Benedict de Spinoza; or Benedito de Espinosa]

The first line refers to “Of Human Bondage” from the Ethics. The purpose of the moderator note is avoid confusing players vis a vis David Hume’s “Reason Is and Ought Only to Be the Slave of the Passions”.

6. In one novel, a soldier named Winterbourne commits suicide during this war after finding he can no longer relate to his wife. After his wife leaves for China, the farmer Claude Wheeler enlists to fight in this war in Willa Cather’s novel *One of Ours*. A character who deserts this war rows all night to escape to (*) Switzerland and had earlier shot a cowardly sergeant for refusing to help lift Aymo’s car out of the mud. A soldier in this war guiltily decides to send money to the family of the printer Gerard Duval, whom he had just stabbed to death, and that protagonist inherits Kemmerich’s boots after the death of Müller. For 10 points, name this global conflict, the setting of *All Quiet on the Western Front*.

ANSWER: World War One [or WWI or equivalents like First World War]

7. The front runner for the nomination of one party in this election, Champ Clark, lost his momentum after he was endorsed by Tammany Hall. One candidate in this election lost the support of progressives when he fired conservationist Gifford Pinchot as head of the Bureau of Forestry and endorsing the Payne-Aldrich tariff. (*) Eugene V. Debs received nearly a million votes in this election, the last one before his campaign from prison. This election was won by the Democratic party after the Republicans split with the progressives starting their own Bull-Moose party. For 10 points, name this election, which saw Woodrow Wilson won his first term of office.

ANSWER: Election of 1912

8. One biracial leader of this country’s independence movement was nicknamed “The Bronze Titan”; that leader was Antonio Maceo. The Ten Years’ War was fought in this country, in which General Valeriano Weyler ran concentration camps. The Platt (*) Amendment was introduced into this country’s constitution to allow for American invasion at any time, and the Battles of Kettle Hill and San Juan Hill were American victories in this country. The “Rough Riders” fought in this country in a conflict that began after the sinking of the USS Maine and resulted in an American lease over this country’s city of Guantanamo. For 10 points, name this Caribbean country.

ANSWER: Cuba

9. At the end of one opera by this composer, the ghost of Queen Tiye is among the figures singing wordlessly over a bass line from the beginning of another of this man’s operas. In that latter opera by this man, characters sing “I Feel the Earth Move” during a scene depicting a trial. Another of his operas opens “On the Kuru Field of Justice” and has three acts titled for Tolstoy, Tagore, and King. In addition to using Sanskrit in (*) *Satyagraha*, the first opera in this man’s *Portrait Trilogy* contains sections like “Prematurely Air-Conditioned Supermarket” and “Mr. Bojangles”. That opera divided into five parts by “Knee Plays”. For 10 points, name this American composer of *Einstein on the Beach*.

ANSWER: Philip Glass

10. A city in this country names a major chord built on the lowered second scale degree, such as a D-flat major chord in C major. Richard Strauss was sued by a composer from this country after accidentally committing plagiarism in a tone poem inspired by this country. A violinist from this country encouraged (*) Berlioz to write a symphony loosely based on Byron's poem *Childe Harold's Pilgrimage*. One composer from here wrote etudes nicknamed "The Trill" and "The Devil's Laughter". Another composer from this country depicted the fountains and pines of its capital city in such movements as "The Pines of the Appian Way". For 10 points, name this birthplace of Ottorino Respighi and Niccolò Paganini.

ANSWER: Italy [accept the Italian Republic]

11. One war in which these people were defeated started when a tax on dogs led to a revolt by Hone Toia that was the last major war between this group and the Pakeha. Another war started when Hone Heke chopped down a flagstaff that he had originally gifted to James Busby (*), the first British resident of these people's country. After these indigenous people made contact with the British and obtained firearms, they started taking part in raids known as the Musket wars, which rocked their territories on North Island in the early 19th century. For 10 points, name these native people of New Zealand.

Answer: Maori

12. This artist's unfinished last painting depicts a lean female in a yellow dress leaping off of a galloping white horse; that painting is *The Circus*. Three nude women appear before this artist's most famous work in his painting *The Models*. One painting by this artist shows a girl in a white dress staring directly at the viewer as she holds hands with a lady in a pink dress carrying a (*) red parasol; that painting also depicts a woman who is holding both a dog and a monkey on leashes. For 10 points, name this painter who used his signature pointillist technique in such works as *Bathers at Asnieres* and *A Sunday Afternoon on the Island of La Grande Jatte*.

ANSWER: Georges(-Pierre) Seurat

13. The founders of this denomination created the "Holy Club." Members of this denomination wrote the hymn "Hark! The Herald Angels Sing." Members of this sect were the foremost "circuit riders" who preached in the open-air. Scripture, reason, experience and tradition make up a "quadrilateral" for study named after its primary founder, who was aided by George (*) Whitefield. This denomination's split from the Church of England explains the "Episcopal" sometimes appended to its name, and black-majority churches in it are often designated "AME." For 10 points, name this Christian denomination founded by John Wesley.

ANSWER: Methodism [or Methodists; or Methodist Episcopal or AME before mention; accept Wesleyan before the end; do not accept just "Episcopal"]

14. Diotima declares this figure is a son of Contrivance and Poverty. A story about this male figure is told by an old woman to comfort Charite, beginning in Book Four of *The Golden Ass*. This brother of Anteros complains to his mother in a Theocritus poem after being stung by bees. He is called "protogenos" or "firstborn" to reference his possible parentage by either Chaos or (*) Uranus and Gaia. Upon being convinced this god is a malicious serpent, his lover spills candle oil when trying to see his face. He fathers Hedone with that lover after she completes four trials to appease his mother Venus. For 10 points, name this lover of Psyche, a love god who uses a bow.

ANSWER: Cupid [or Eros]

15. The 48 isotope of this element is formed during type 1a supernovae in the r-process. A common motif among proteins which bind to this element consists of two linked alpha helices and is called the EF hand. This element is released when sperm and egg cells form a zygote in the (*) cortical reaction, and cations of this element are released when ATP binds to troponin in muscle contraction. The most common minerals composed of this element's carbonate form a rock that often forms Karst topography; that rock is limestone, which contains aragonite. The third lightest of the alkaline earth metals is--for 10 points--what element symbolized Ca?

ANSWER : calcium [prompt on "Ca" before end of question]

16. While serving under his uncle Maurice Suckling, this man went on an expedition looking for the Northwest Passage. This man utilized a strategy known as his namesake "touch" and had a long running affair with Emma Hamilton. He won an early victory against a Danish fleet at the Battle of Copenhagen and defeated Pierre Charles (*) Villeneuve at his most famous battle. This man used a mixture of semaphore alphabets to display the message "England expects every man to do his duty" at that battle. For ten points, name this captain of the *HMS Victory*, the victor at the Battle of Trafalgar.

ANSWER: Horatio Nelson

17. A poem by this author includes a title figure telling another that she has been to "places with no carpet on the floor" "where there ain't no light." The narrator of one of this man's poems "will be at the table/when company comes" and claims that people will "be ashamed that I, too, am, America." In another poem, this poet wonders what will happen to the title object, and considers that it may "dry up like a (*) raisin in the sun." This poet ends another work by stating "my soul has grown deep like the rivers." For 10 points, name this poet of the Harlem Renaissance poet who wrote "Mother to Son" and "The Negro Speaks of Rivers."

ANSWER: Langston Hughes

18. This man was the subject of the third Secret of Fatima. This figure, who was unsuccessfully targeted in the Bojinka plot, controversially kissed a copy of the Koran while visiting a mosque in Syria, and survived being (*) shot by a member of the Grey Wolves, Mehmet Ali Agca. He began the celebration of World Youth Day, advocated against euthanasia and capital punishment in the encyclical *Evangelium Vitae*, and helped topple communist rule in his native country of Poland. For 10 points, name this former leader of the Roman Catholic church who was succeeded by Benedict XVI.

ANSWER: Pope John Paul II [prompt on "John Paul"; accept Karol Jozef Wojtyla]

19. One form of this disease is caused by a Robertsonian translocation. The main model organism used to study this disease is the Ts65Dn mouse, which is tested for defects in its *Mrpl39* gene. Those who suffer from this condition often have characteristic (*) Brushfield spots along the iris. More than 50% of those afflicted with this condition suffer from Alzheimer's disease after age 60. Symptoms of this disease include sleep apnea, a lower than average IQ, and a shortened neck. For 10 points, name this syndrome, caused by the trisomy of chromosome 21.

ANSWER : Down syndrome [accept DS or DNS; accept trisomy 21 before mention]

20. In a game named for this product, all video cutscenes feature actor Mike Butters watching TV and coining new slogans for it. In a popular sketch from Saturday Night Live, the Olympia Restaurant only serves cheeseburgers, chips, and this product. Marty McFly's son purchases a "Perfect" version of this product at the 80's Cafe in Back to the Future Part II. While recording an advertisement (*) for this product, Michael Jackson's hair caught on fire. A controversial ad by the company that manufactures this product shows Kendall Jenner approaching a cop among a protest featuring several minority groups. For 10 points, name this brand of soda which comes in a transparent "Crystal" form.

ANSWER: **Pepsi**

TB. He's not Nasser, but this leader attempted to unify with his country's Western neighbor in the Arab Islamic Republic. This leader attempted to conquer the Aozou Strip from one of his neighbors in the Toyota War. This leader created the Great Man-Made Waterway to supply desert cities with water, and this leader published his thoughts in the Green (*) Book. Ronald Reagan ordered a bombing raid on this leader's palace after the Lockerbie Bombing, and this leader was overthrown in a campaign during which Barack Obama adopted the "Lead from Behind" strategy. The city of Benghazi was an early center of protests against this leader. For 10 points, name this longtime Libyan dictator.

ANSWER: Muammar al-**Qaddafi** [accept reasonable variants in pronunciation for both names; err on the side of giving more leeway]

BONUSES

1. This thinker was the first to use “surfing” in the sense of moving through a lot of information quickly, as in “surfing the Web.” For 10 points each:

[10] Name this Canadian media theorist, who captured the link between the way a message is expressed and its content in the phrase “the medium is the message” coined in his *Understanding Media*.

ANSWER: Marshall **McLuhan**

[10] McLuhan contrasted “hot” media like movies with “cool” media, which require more involvement to derive meaning as exemplified by this medium Newton Minnow called a “vast wasteland.” Programs in this medium are broadcast on channels like CNN.

ANSWER: **television** [or **TV**]

[10] TV was not well-liked by Neil Postman, nor by this essayist of “E Unibus Pluram.” He included that essay in the footnote-laden *A Supposedly Fun Thing I’ll Never Do Again*.

ANSWER: David Foster **Wallace** [or **DFW**]

2. The Cree tell of one of these animals which a crane took to ride the moon. For 10 points each:

[10] Name this animal often seen in the moon as a pareidolia and in folklore, particularly as a companion of Chang’e in Chinese legend. One punches a Tar Baby and gets stuck, but is thrown into the briar patch by a less witty rival.

ANSWER: **rabbit** [accept Jade **Rabbit**; accept Brer **Rabbit**]

[10] Brer Fox schemes with Brer Bear to get the better of Brer Rabbit in the stories collected by Joel Chandler Harris which he published under this name.

ANSWER: Uncle **Remus**

[10] While caught in a trap, Brer Rabbit tricks Brer Bear into switching places with him by claiming that he is being paid a dollar a minute to work at this “job.” Description acceptable.

ANSWER: **scarecrow** [or descriptions]

3. The first holder of this office served as the foreign minister for his country’s government-in-exile until 1946. For 10 points each:

[10] Name this office that has been held by people like Trygve Lie, U Thant, and Ban-Ki-Moon.

Answer: **Secretary General** of the **UN** [prompt on partial answer]

[10] This second secretary-general defused the Congo Crisis and established an Emergency Force to end the Suez Crisis. En route to ceasefire talks in Northern Rhodesia, he was killed in an airplane crash.

Answer: Dag **Hammarskjold**

[10] This former Portuguese prime minister is the current secretary-general and previously served as the UN’s High Commissioner for Refugees. He was chosen over rivals such as former New Zealand Prime Minister Helen Clark .

Answer: Antonio **Guterres**

4. For ten points each, answer the following about China’s Three Parallel Rivers region.

[10] One of the Three Parallel Rivers is this one that flows into Southeast Asia. This river flows into Cambodia’s Tonle Sap Lake before reaching its delta near Ho Chi Minh City. China has controversially proposed dams on this river’s headwaters.

ANSWER: **Mekong** [accept **Lancang**]

[10] This longest river in China is the second of the Three Parallel Rivers. It is significantly to the South of the Yellow River.

ANSWER: **Yangtze** [accept **Chang Jiang**, **Jinsha**]

[10] The Nu River, one of China's last undammed major rivers and the third of the Three Parallel Rivers, is more commonly known by this name. The Nu also forms part of the border between Myanmar and Thailand before flowing into the Andaman Sea

ANSWER: **Salween** River [prompt on **Nu Jiang**]

5. This character from German legend is the subject of many works, For 10 points each:

[10] Name this character, who makes a deal with Mephistopheles and can do anything that he desires. However, he must give up his soul if he shows any signs of pleasure while on Earth.

Answer: **Faust** [also accept Doctor **Faustus**]

[10] This German playwright wrote the one adaptation of the Faustian legend. In his work, Faust is escorted to Heaven by Angels before the Devil can take his soul.

Answer: Johann Wolfgang von **Goethe**

[10] In a Thomas Mann work, this Faust-like composer contracts a disease after a brothel visit and makes a pact with a devilish character in order to gain 24 years of musical brilliance.

Answer: **Adrian Leverkühn** [accept either]

6. In February 2016, a Bloomberg investigation revealed that some pre-grated packages of this cheese actually contained wood pulp. For 10 points each:

[10] Name this aged hard cheese often grated onto pasta. The protected-origin Italian variety of this cheese is mainly produced in the regions of Parma and Reggio Emilia.

ANSWER: **parmesan** [accept **Parmigiano-Reggiano**]

[10] Joseph Harding pioneered the modern process for producing this cheese, which comes in varieties of varying sharpness. Annatto is often added to this cheese to create a characteristic orange hue.

ANSWER: **cheddar**

[10] For nearly a century, this country's cheese market was tightly controlled by an economic cartel. Cheeses from here include Emmentaler, raclette, and Gruyère.

ANSWER: **Switzerland**

7. This woman's husband Uriah the Hittite was too virtuous to stay home from battle when asked by the king, ruining the king's plans to cover up his affair with her. For 10 points each:

[10] Name this woman, who gives birth to Solomon after that affair which starts when the king sees her bathing on a rooftop.

ANSWER: **Bathsheba**

[10] The prophet Nathan tells a story about a man with this profession to shame King David after he kills Uriah to take Bathsheba as his wife. The 23rd Psalm written by David opens "The Lord is my [this]; I shall not want."

ANSWER: **shepherd** [or clear-knowledge equivalents]

[10] God is also rather displeased when David holds one of these events in 1st Chronicles 21. One of these held "when Quirinius was governor of Syria" makes Mary and Joseph go to Bethlehem before Mary conceives Jesus.

ANSWER: **census** [or equivalents; prompt on anything about "taxes"]

8. This man was honored in the last months of his life with a performance of his oratorio *The Creation*. For 10 points each:

[10] Name this Austrian composer who served as longtime Kapellmeister for the Esterházy family. Among his 104 symphonies are ones nicknamed "The Surprise" and "The Clock".

ANSWER: Franz Joseph **Haydn**

[10] Haydn wrote a total of twelve symphonies, including "The Surprise" and "The Clock", during his stays in this European city. Oddly enough, only his final symphony is actually nicknamed for this city.

ANSWER: **London**

[10] Haydn's 103rd symphony, his second-to-last, has this nickname on account of the timpani solo that opens the first movement.

ANSWER: "The **Drumroll**"

9. This process is responsible for the decay of iron-55 to manganese-55. For 10 points each:

[10] Name this process that changes a nuclear proton to neutron, thereby releasing an electron neutrino while also decreasing the nucleus' atomic number by one.

ANSWER: **electron capture** [or **K-electron capture**; also accept **K-capture**, **L-electron capture**, and **L-capture**]

[10] Electron capture can sometimes result in this effect, where the filling of an inner-shell vacancy of an atom causes an electron to be emitted from the same atom.

ANSWER: **Auger** effect

[10] Electron capture can be thought of as the reverse of this process, which comes in plus and minus types and results in the emission of either a positron or an electron from an atom.

ANSWER: **beta** decay [accept **beta** minus decay or **beta** plus decay]

10. Fourteen paintings of this color line the walls of the Rothko Chapel. For 10 points each:

[10] Give this color that dominates most of Ad Reinhardt's monochrome canvases. Anish Kapoor created a watch using a material known as "Vanta [this color]".

ANSWER: **black**

[10] A series of works painted late in the life of this Spanish artist is known as his *Black Paintings* due to their intense, haunting themes. A sole lantern provides the only source of light in this man's *The Third of May, 1808*.

ANSWER: Francisco de **Goya**

[10] Goya painted clothed and nude versions of this type of woman. This type of woman were the lower class in Spain during the eighteenth and nineteenth century.

ANSWER: **maja** [accept The Nude **Maja** or La **Maja** Desnuda or La **maja** vestida or The Clothed **Maja**; do not accept majoj]

11. James Baldwin criticized this book in his essay "Everybody's Protest Novel." For 10 points each:

[10] Name this novel whose protagonist dies in the hands of George Shelby. This book is subtitled "Life among the Lowly."

Answer: **Uncle Tom's Cabin**

[10] This slave owner in Uncle Tom's Cabin argues with his sister Ophelia over the merits of slavery. At the end of the novel, he frees all of his slaves, Tom included.

Answer: **Augustine St Clare** [accept either]

[10] Besides *Uncle Tom's Cabin*, Harriet Beecher Stowe wrote this novel following Nina Gordon and her drunk, inhumane slave-owning brother Tom. It is subtitled for a forested wetland between Virginia and North Carolina.

Answer: **Dred**: A Tale of the Great Dismal Swamp

12. Sam Rayburn of Texas is the longest-serving holder of this position. For 10 points each:

[10] Name this powerful post currently occupied by Paul Ryan.

ANSWER: **Speaker** of the United States **House** of Representatives [prompt on "Speaker"]

[10] This Georgia congressman was swept into the speakership by a 1994 wave election he called the "Republican Revolution". This man led impeachment efforts against Bill Clinton.

ANSWER: Newt **Gingrich**

[10] This document authored by Gingrich outlined the Republican agenda during the 1994 election. This document, which listed eight promises, was partially responsible for Republican gains in that election.

ANSWER: **Contract with America**

13. Physical behavior is often difficult to predict due to various phenomena. For 10 each:

[10] Weather is hard to predict because it exhibits this behavior. This property is exhibited in systems in which a small change in initial conditions results in a large change in behavior.

ANSWER: **chaotic** [accept word forms such as **chaos**]

[10] The behavior of systems modeled using this branch of physics is often impossible to model exactly due to non-determinism. Erwin Schrödinger was a pioneer in this branch of physics.

ANSWER: **quantum** mechanics [accept anything containing the word **quantum**]

[10] A system in this situation is sensitive to small displacements. This situation results when the potential energy of the system is at a local maximum.

ANSWER: **unstable equilibrium** [prompt on “equilibrium”]

14. A Resistance leader jumps across rooftops to escape SS officers in a movie set in this “open city.” For 10 points each:

[10] Name this city. A statue of Jesus is transported here at the start of another movie centering on a gossip journalist who wanders through it for seven days and wades in a fountain with the actress Sylvia.

ANSWER: **Rome** [or **Roma**; accept **Rome, Open City**]

[10] Marcello and Sylvia splash each other in the Trevi Fountain in this director’s *La Dolce Vita*. “Director’s block” plagues Guido Anselmi in his *8 1/2*, which was made with his frequent actor-collaborator Marcello Mastroianni.

ANSWER: Federico **Fellini**

[10] Fellini’s countryman Ennio Morricone is most famous for his scores to movies in this genre, such as Sergio Leone’s *A Fistful of Dollars* and *The Good, The Bad, and the Ugly*. Both of those movies belong to its low-budget Italian-directed “spaghetti” subgenre.

ANSWER: spaghetti **Westerns**

15. This figure was cursed by the rishi Durvasa for failing to greet him correctly and causes her future husband to lose his memories about her. For 10 points each:

[10] Name this legendary female figure who partly titles a work by Kalidasa. She was the mother of king Bharata and the lover of king Dushyanta.

Answer: **Shakuntala**

[10] While washing her hands in a river, Shakuntala loses this object, which a fisherman recovers for her. This object helps the king remember her.

Answer: her **ring**

[10] Shakuntala was a figure from this country’s mythology. It was home to Kalidasa and other Sanskrit poets.

Answer: **India**

16. Answer the following about numerically-named periods of Chinese history, for 10 points each:

[10] Cao Cao, Sun Quan, and Liu Bei fought for control of China during this era between the Han and Jin Dynasties. It is the namesake of a novel by Luo Guanzhong.

ANSWER: **Three Kingdoms** Period [accept **Sānguó**]

[10] Following the collapse of the Tang dynasty, several dynasties of mixed Han Chinese and Turkic origin took the capital of Chang'an as the provinces fragmented into independent states. Name either the number of dynasties or the number of kingdoms associated with that period.

ANSWER: **Five Dynasties** and **Ten Kingdoms** [accept either underlined answer]

[10] The Three Feudatories Rebellion, which overtook much of southern China, took place during the early rule of this dynasty of Manchu origin, China's last before it was declared a republic.

ANSWER: **Qing** Dynasty

17. This man's namesake ratchet explains how asexually reproducing organisms accumulate deleterious mutations. For 10 points each:

[10] Name this man, who along with Bateson and Dobzhansky explained how reproductive isolation can lead to hybrid inviability and speciation.

ANSWER: Hermann Joseph Muller [or H. J. Muller]

[10] Certain cells of sexually reproducing organisms undergo this process, whereby one diploid cell splits into four haploid gametes. This form of cell division is often contrasted with mitosis.

ANSWER: meiosis

[10] A certain degree of genetic diversity is introduced during this phase of meiosis, since the random orientation of homologous chromosome pairs along the same equatorial line forms the physical basis of the independent assortment of chromosomes.

ANSWER: metaphase I [one] [prompt on "metaphase" or "meiosis I"]

18. Everyone makes mistakes, but these people's mistakes caused a large number of unnecessary deaths. For 10 points each:

[10] This general lost three legions in the Battle of the Teutoburg Forest. After this general killed himself, Augustus would often cry out, "Return my legions!"

Answer: Publius Quinctilius Varus

[10] This French emperor foolishly tried to put his brother Joseph on the Spanish throne and lost about three hundred thousand soldiers in the ensuing Peninsular War.

Answer: Napoleon Bonaparte [accept either underlined; do not accept or prompt on "Napoleon III" or "Louis-Napoleon"]

[10] This commander tried to charge a 2500-strong Native American force with a cavalry of around 700 at the Battle of the Little Bighorn, which became known as this man's "last stand".

Answer: George Armstrong Custer

19. The formation of this material is termed pedogenesis, and a nutrient-rich form of this material is prefixed with "top-." For 10 points each:

[10] Name this mixture composed of both inorganic and organic material used to grow plants.

ANSWER: soil [prompt on "dirt"]

[10] Soil layers are organized into nine of these classifications, including O, which stands for organic, and P, which stands for peat.

ANSWER: soil horizons

[10] The B soil horizon, or subsoil layer, accumulates iron, clay, aluminum, and organic compounds via this process. This process is the displacement of material across a soil profile due to rainwater.

ANSWER: illuviation [do not accept "alluviation"]

20. One of this book's characters was discovered to have disappeared from all government records after another character does not find his name on the chess club members list. For 10 points each:

[10] Name this book about an everyman named Winston Smith, who repeatedly tries to join the Brotherhood but is eventually betrayed by a member of the thought police.

Answer: Nineteen Eighty-Four

[10] George Orwell, the author of 1984, also wrote this essay, a metaphor for British imperialism. It follows a police officer in Burma tasked with the titular duty.

Answer: Shooting an Elephant

[10] Orwell documented poor Lancashire and Yorkshire working conditions in this sociological investigation. The titular structure was used for coal loading before being shut down in 1929.

Answer: The Road to Wigan Pier

