

FACTS

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PACKET 07

Editors 3 (TJ + CSW)

TOSSUPS

1. In 2016, this country and China announced they would normalize relations, six years after a dispute over a Nobel Prize. This country's region of Finnmark is home to a minority group speaking a Finno-Ugric language. The Bokmal dialect of this country's language is co-official with a "new" dialect. Anders Behring Breivik committed a mass shooting on this country's island of (*) Utoya in 2011. This is the westernmost country in which the Sami live, and its current prime minister is Erna Solberg. The dynasty of this country's King Harald V has led it since its independence from Sweden in 1905. For 10 points, name this Scandinavian country that has its capital at Oslo.

ANSWER: Kingdom of Norway

2. In one form of this reaction, pyrolysis occurs to do an insufficient amount of one reactant. The disproved phlogiston theory was used to describe this process. Cycloalkane stability is determined using the heat of this reaction, which occurs at the (*) flash point and catalytic converters break down exhaust from engines that use this reaction. This reaction's incomplete form may result in the production of carbon monoxide or hydrogen gas, and its rapid form is known as detonation or explosion. For 10 points, name this type of reaction between a hydrocarbon and oxygen that produces carbon dioxide and water.

ANSWER: combustion [or burning, or explosion; accept word forms]

3. One sculpture by this artist shows a curled-up woman with her back to the viewer being hoisted into the air by a man in an Atlas-like pose; that work, *I am beautiful*, is made from joining the artist's other works *Crouching Woman* and *The Falling Man*. The Paris Salon rejected this artist's *Man with the Broken Nose* and nearly rejected (*) *The Age of Bronze* after rumors spread that the artist had taken a cast from a living model. A more successful work by this artist commemorates the bravery of the elders of a besieged town during the Hundred Years' War, while his most well-known piece is a bronze statue depicting a seated man lost in thought. For 10 points, name this French sculptor of the *Burghers of Calais* and *The Thinker*.

ANSWER: (François) Auguste (René) Rodin

4. Bednorz and Muller discovered this property in a lanthanum-based cuprate perovskite material, paving the way for the creation of materials like MgB_2 . A characteristic depth of materials exhibiting this property represents the distance at which the magnetic field equals the surface magnetic field over the fundamental charge; that depth is named for London. Bardeen (*), Cooper, and Schrieffer explained this property as a superfluid of Cooper pairs, and materials exhibiting this property may expel a magnetic field in the Meissner effect, which can be used to make small model maglev trains. For 10 points, name this phenomenon in which a material exhibits zero electrical resistance.

ANSWER: superconductivity

5. As a result of high sugar tariffs and dissatisfaction with the Salomon-Lozano Treaty, this country was invaded by a southern neighbor during the Leticia Incident. Alberto Camargo entered into a power-sharing agreement with Laureano Gomez in this nation to form the National Front, which ended a period of political instability caused by the assassination of Jorge Eliecer Gaitan and known as (*) “La Violencia”. The Medellin cartel operates in this country, whose president, Juan Manuel Santos, was awarded the 2016 Nobel Peace Prize for negotiating a peace deal with the rebel group FARC. Drug-related crimes have heavily affected, for 10 points, what South American country with capital at Bogota?

ANSWER: Republic of Colombia [or Republica de Colombia]

6. An experimental city in this country is said to belong to “humanity as a whole”, yet has less than 2,500 residents. That city, the Roger Anger-designed Auroville, has a large golden sphere at its center. Another monument in this country depicts a symbolically enlarged pinky and thumb with a single line across the palm, called the (*) Open Hand Monument. More famous examples of monuments in this country include a collection of nineteen astronomical instruments, called Jantar Mantar, and the Golden Temple at Amritsar. For 10 points, name this country home to Shah Jahan’s marble mausoleum, the Taj Mahal.

ANSWER : India [accept Bharat]

7. One leader during this war fled to the Ottoman Empire after losing its decisive battle. A failure to rejoin Adam Lowenhaupt’s army resulted in one side of this war being outnumbered for most of its duration. This war’s two major naval battles took place at Grengam and Gangut. The Cossack chieftain Ivan Mazepa fought for its losing side, which had earlier won the Battle of (*) Narva. That battle was a victory for King Charles XII of this war’s losing nation. The victor of this war built what would become his capital in captured territory on the Gulf of Finland at what is now St. Petersburg. This war’s decisive battle was fought in 1709 at Poltava. For 10 points, name this war in which a coalition led by Peter the Great defeated Sweden.

ANSWER: Great Northern War

8. One section of this work ends with an abrupt G major chord and borrows a repeated note motif from a Rameau harpsichord suite. In another section of this work, an offstage clarinet plays a “C-A flat” ostinato. “Twinkle Twinkle Little Star” is quoted in a movement of this work that begins with xylophone imitating the (*) clattering of bones. The fourth movement of this piece depicts the title entities with a painfully slow adaptation of Offenbach’s “Galop infernal”. This piece opens with an “Introduction and Royal March”, and its other movements include a mockery of critics titled “People with Long Ears”, “Fossils”, and a cello solo depicting a swan. For 10 points, name this humorous zoological suite by Camille Saint-Saens.

ANSWER: Carnival of the Animals [or Le carnaval des animaux]

9. This phenomenon is limited by the size, or “extent,” of a society’s market, according to chapter 3 of a foundational text. Societies in which this phenomenon does not occur were said to have a relatively strong “collective conscience” which binds them together “mechanically,” while this phenomenon does occur in more “advanced” societies whose solidarity is organic. Book I of *The* (*) *Wealth of Nations* opens with two chapters on this concept, which is illustrated by an example in which several workers create 48,000 times as many pins as a single worker could produce. For 10 points, name this phenomenon studied “in Society” by Durkheim, in which tasks are specialized and split among several workers.

ANSWER: division of labor [accept specialization prior to mention; prompt on “labor”; accept *The Division of Labor in Society*]

10. Albedo features observed on this planet include the Aram Chaos and the Acidalia Colles. Concretions produced by weathering creates the “blueberry” formations on this planet, whose Chryse Planitia can be found in its Borealis Basin. An elevated area of volcanic activity near this planet’s equator is the (*) Tharsis region. This planet’s Valles Marineris has a collapsed crust, and Giovanni Schiaparelli made sketches of this planet that incorrectly depicted canals. Mariner 9 provided early images of this planet, which is home to Olympus Mons and is currently being explored by the *Curiosity* rover. For 10 points, name this “Red Planet”, the fourth from the sun.

ANSWER: Mars [prompt on “Red Planet” before mention]

11. During this war, Alexander Smyth led a campaign which was abandoned after the battle of Frenchman’s Creek, and one battle during this war inspired a song set to the tune of “To Anacreon in Heaven.” The aforementioned campaign featured the defeat of Stephen Van Rensselaer and death of Isaac Brock at the Battle of Queenston (*) Heights. One commander in this war sent the message, “we have met the enemy and they are ours” after winning the Battle of Lake Erie. One battle in this war was fought after this war was resolved in the treaty of Ghent. For 10 points, name this war between Great Britain and the US that began in its namesake year.

ANSWER: War of 1812

12. This figure is sometimes identified as one with a book which introduced the *rasa lila* dance. This figure is the main speaker in a 700-verse work often published in English as *[that text] As It Is* which compares rotten, bitter, and sweet fruit to three *gunas*. Oppenheimer quoted this figure after the Trinity Test when he said, “Now I am become (*) death, destroyer of worlds.” A mantra devoted to this figure prefaces his name with “Hare” [HAH-ray]. In a Vyasa poem, this charioteer convinces Arjuna that it is okay to kill his Kaur-a-va enemies. For 10 points, name this speaker of the *Bha-ga-vad Gita*, the eighth avatar of Vishnu.

ANSWER: Krishna [or Krsna; prompt on “Vishnu”]

13. In one work by this author, an empty glass of water signals to the protagonist that his house is haunted. In another work by this author, the title character weeps as the strict Democrat Cornudet whistles the Marseillaise. In that same work, a group of travellers are detained at the village of Tôtes, where a (*) Prussian officer demands to sleep with a prostitute in exchange for the passage of the travellers. This author of "The Horla" and "Boule de Suif" is best known for a work which sees Mathilde Loisel work away youth to replace Madame Forestier's fake title accessory. For 10 points, name this author of "The Necklace."

ANSWER: Guy de Maupassant

14. This figure was granted the title “Defender of the Home Tree” for his role in negotiations with the Trandoshans. On Rugosa, this figure was the victor in King Katuunko’s challenge. The last student of this figure was a nobleman from Serenno who became one of the “Lost Twenty”. Reinforcements brought by this figure began the First Battle of (*) Geonosis. This character decapitated two would-be assassins on Kashyyyk and escaped with the aid of Tarfful and Chewbacca. After failing to defeat Darth Sidious during a duel in the Senate, this character went into exile on Dagobah, where he mentored Luke Skywalker. “Do or do not, there is no try” is spoken by, for 10 points, what final Grand Master of the Jedi Order?

ANSWER: Yoda

15. In one poem by this author, the narrator expresses his desire to be shipped “somewheres east of Suez, where there aren’t No Ten Commandments”. That poem was inspired by a beautiful woman the author met in the title city. An Irish soldier who spies for the British is depicted in one of this author’s works that popularized the term (*) “The Great Game”. A poem by this author tells the reader to “send forth the best ye breed”. In his most famous work, a boy raised by wolves confronts the tiger Shere Khan. For 10 points, name this author of “Mandalay”, “The White Man’s Burden”, and *The Jungle Book*.

ANSWER: (Joseph) Rudyard **Kipling**

16. A 2008 analysis of this experiment’s results determined that it’s “volcanic” version produced several more molecules of a certain class. The crashing of the Murchison meteorite raised questions concerning the validity of this experiment’s results, which sought to validate the Oparin-Haldane hypothesis. Joan Oro used the results of this experiment to attempt a synthesis of (*) adenine. Researchers have varied the spark mechanism originally used in this experiment to explain how other compounds may have been created. For 10 points, name this experiment which investigated the origins of life on Earth and demonstrated that carbohydrates and amino acids could spontaneously form from inorganic compounds in Earth’s early atmosphere.

ANSWER: **Miller-Urey** experiment [or **Urey-Miller** experiment; prompt on partial answer]

17. In one work by this author, the title character has her taxes waived by the mayor of the town, Colonel Sartoris, to assuage the pain of her father’s death. This author documented the downfall of Flem Snopes in "The Hamlet", "The Town", and "The Mansion." Another work by this author is narrated by 15 different characters, including one who steals money in order to buy new (*) teeth. This author documents the thirty year history of the Compson family from the viewpoints of three brothers, including Benjy and Quentin. For 10 points, name this Mississippi author of *A Rose for Emily*, *As I Lay Dying*, and *The Sound and the Fury*.

ANSWER: William (Cuthbert) **Faulkner**

18. While this man was away from Rome, his prefect Attianus executed the general Lusius Quietus. A grain collection agency was converted by this man into his secret police, the Frumentarii. This ruler deified his lover Antinous, who drowned in the Nile, and ordered Sextus Severus to suppress a revolt in Judea led by Simon Bar Kokhba. (*) A coffered dome tops a temple dedicated to all the gods that was rebuilt during the reign of this emperor, who was succeeded by Antoninus Pius. This man separated the northern border of the Roman Empire from the Picts with a massive stone fortification. For 10 points, name this Roman emperor who succeeded Trajan and built a namesake wall in Britain.

ANSWER: (Publius Aelius) **Hadrianus** (Augustus)

19. Saxo Grammaticus wrote of this figure as a historical man and a potential suitor of the daughter of Gëwar. Vafthrudnir is unable to answer a riddle about this figure. Hyrrokkin helps push this deity’s ship out to sea at the same event that Thor kicks a dwarf named Litr into a fire. He fathered the god of justice Forseti with Nanna. Hermod asked for the (*) release of this god. Thokk did not weep for this god, whose mother Frigg got oaths from everything but one plant not to hurt him. Vali was born and raised to adulthood in a single day to kill his blind twin Hodr. Draupnir was placed on this god’s funeral pyre. For 10 points, name this beautiful god of light killed by a sprig of mistletoe.

ANSWER: **Baldr** [or **Baldur** or **Balder**; accept **Hodr** or **Hodor** before “riddle”]

20. While traveling the countryside, the main character of this work meets a 10 year old girl and kidnaps her in order to turn her into the “ideal lady.” In an earlier chapter of this book, a fortune-teller relays to the father of a main character that his country would descend into chaos if his son takes the throne, causing the son’s removal from the line of succession. (*) After the title character’s affair with his brother’s concubine is revealed, he is exiled to Suma. One of this book’s chapters is entirely blank to imply the death of the main character, who is assumed to have “vanished into the clouds.” For 10 points, name this novel written by Murasaki Shikibu.
ANSWER: **Genji Monogatari** [accept The **Tale of Genji**]

BONUSES

1. Answer the following about postwar politics in France. For 10 points each:

[10] Valéry Giscard d'Estaing's presidency ended rather abruptly when he was found to have accepted gifts from the cannibalistic emperor of this modern-day country, Jean-Bedel Bokassa.

ANSWER: Central African Republic [accept Central African Empire or CAE]

[10] This French party gained power under leaders like François Mitterrand and Vincent Auriol. It was the successor party to Leon Blum's Popular Front.

ANSWER: Parti Socialiste [accept PS, Socialist Party]

[10] This President from 1958-1971 was the former leader of the Free French during World War II. The beginning of his presidency coincided with the start of the Fifth Republic.

ANSWER: Charles de Gaulle [CDG]

2. The Lagrangian integrated over time gives this quantity, which is stationary for the path a particle takes. For 10 points each:

[10] Name this quantity with units of Joule-seconds. Hamilton's principle states that this quantity is extremized in physical systems.

ANSWER: action

[10] The Lagrangian has units of energy because it is equal to kinetic energy minus this other type of energy. Near the surface of the Earth, this energy is given by mass times acceleration due to gravity times height.

ANSWER: potential energy

[10] Along with Lagrange, this man names the second-order partial differential equation describing stationary motion central to the calculus of variations and Lagrangian mechanics. This man also names a set of equations describing rigid body dynamics.

ANSWER: Leonhard Euler

3. This color describes "the Figure 5" in the title of a Charles Demuth painting. For 10 points each:

[10] Name this color which forms the background and clothing around the central couple in an Austrian artist's painting of *The Kiss*.

ANSWER: gold

[10] This artist of the aforementioned *The Kiss* used gold leaf extensively in his paintings, including *The Kiss* and *The Beethoven Frieze*.

ANSWER: Gustav Klimt

[10] Klimt also used gold in a series of portraits of this Viennese socialite. This frequent muse of Klimt also posed for his *Judith and the Head of Holofernes*.

ANSWER: Adele Bloch-Bauer

4. The mass exodus of members of this polity during a 1948 conflict was termed Al-Nakba. For 10 points each:

[10] Name this state that disputes the West Bank and the Gaza Strip with Israel.

ANSWER: Palestine

[10] The Gaza Strip is controlled by this Palestinian terrorist organization led by Khaled Mashal. This organization fought with Fatah in 2007, leading to the split of the Palestinian Authority.

ANSWER: Hamas

[10] Hamas was founded during the first of these uprisings against Israel. The Arabic for these events translates to "shake off".

ANSWER: Intifadas

5. The narrator of this work observes Jose Ybarra-Jaegar to be out of place like “a violin in a jazz band”. For 10 points each:

[10] Name this work in which Holly Golightly visits her friend Sally Tomato at Sing Sing prison.

ANSWER: **Breakfast at Tiffany's**

[10] *Breakfast at Tiffany's* was written by this American author who detailed the adventures of Joel Harrison Knox in *Other Voices, Other Rooms*.

ANSWER: Truman **Capote**

[10] Capote depicted the murder of this Kansas family in his crime novel *In Cold Blood*.

ANSWER: **Clutter** family

6. In one scene, this character refuses a request for Beethoven and instead continues to play Schumann. For 10 points each:

[10] Name this character who, despite having “alienated Windy Corner, perhaps forever”, happily elopes with George Emerson after breaking her engagement to Cecil Vyse.

ANSWER: **Lucy** Honeychurch [prompt on “Honeychurch”]

[10] Lucy Honeychurch appears in this E.M. Forster novel, which begins with Charlotte Bartlett complaining about her accommodations in the Pension Bertolini.

ANSWER: **A Room With a View**

[10] This other Forster novel sees a carriage run over and kill a kidnapped baby and features the marriage of Gina Carella and Lilia Herriton. It takes its name from Alexander Pope's *Essay on Criticism*.

ANSWER: **Where Angels Fear to Tread**

7. This country celebrates its Children's Day on the anniversary of a battle at which an army of children armed with sticks and painted-on beards was wiped out. For 10 points each:

[10] Name this country whose city of Humaita was subjected to a lengthy siege, and which had most of its male population wiped out, during the War of the Triple Alliance.

ANSWER: **Paraguay**

[10] This president of Paraguay, who was killed at the aforementioned Battle of Cerro Corá, arguably sparked the War of the Triple Alliance by seizing control of the Platine basin, thus angering other larger hegemony in the region.

ANSWER: Francisco **Solano López**

[10] The “Triple Alliance” against Paraguay consisted of Argentina, Uruguay, and this Empire, which was ruled from Rio de Janeiro by Pedro II.

ANSWER: The Empire of **Brazil**

8. A *Washington Post* reporter named this state's Red Lake County the worst place to live in America. After visiting, he loved it so much that he moved there a year later. For 10 points each:

[10] Name this Midwestern state with its capital at St. Paul.

ANSWER: **Minnesota**

[10] Minnesota's Itasca State Park contains the headwaters of this river. In 2008, the I-35W bridge in Minneapolis over this river collapsed, killing thirteen people.

ANSWER: **Mississippi** River

[10] This lake is shared between Minnesota and the Canadian provinces of Ontario and Manitoba. It contains the Northwest Angle, the northernmost point in the contiguous United States.

ANSWER: **Lake of the Woods**

9. Though he's not Jesus, people grow out their hair like the mane of a lion to represent this person's status as "Lion of Judah." For 10 points each:

[10] Name this "King Alpha," who "is the chapel" according to one song. His April 21 landing at Palisadoes Airport is celebrated on Grounation Day.

ANSWER: Haile **Selassie I** [or either part of **Ras Tafari Makonnen**]

[10] A giant cloud of smoke from this plant was visible on Grounation Day. Rastas use it with a pipe they call a chalice to connect with Jah.

ANSWER: **ganja** [or **marijuana**, **cannabis**, or its innumerable synonyms]

[10] Rastas sometimes wear black, but almost always wear red, gold, and green, as seen on the "Rasta" kind of this clothing item. Jewish men wear one called a kippah.

ANSWER: **hat** [or **cap**; accept **Rastacap**; accept equivalents]

10. While recursion can be used to greatly simplify a program, it has poor runtime when the same case is called multiple times. For 10 points each:

[10] The runtime for recursive algorithms can be improved using this technique, which stores data when a case is computed for the first time and looks up that data when the case is called again.

ANSWER: **dynamic programming** (or **dynamic optimization**; accept **memoization**)

[10] Although dynamic programming can speed up a program, it comes at the cost of this resource, which is used for storing information. This resource is measured in bytes.

ANSWER: **memory** [accept specific types of memory, such as random access **memory** or **RAM**]

[10] A standard example of dynamic programming is the solution to this problem, which, given a set of objects with certain weights and values, seeks to fill the namesake bag so as to maximize value without exceeding a certain weight.

ANSWER: **knapsack** problem [or **rucksack** problem]

11. The author of this play claimed that it should not be considered a "clash of cultures." For 10 points each:

[10] Name this play in which British colonial authorities prevent the village chief Elesin from committing ritual suicide. Elesin later kills himself anyway by the end of the play.

Answer: **Death and the King's Horseman**

[10] *Death and the King's Horseman* was written by this playwright, the first African to win a Nobel Prize for Literature.

Answer: Wole **Soyinka**

[10] In *Death and the King's Horseman*, the fictional "Not-I" is one of these animals that, according to Elesin, serves as a messenger for Death. The animal is named after the response people usually give when told they will soon die.

Answer: **bird**

12. Text exchanges between Anthony Levandowski and this man included the cheerful phrases "second place is first [loser]", "burn the village", and "greed is good". For 10 points each:

[10] Name this founder and former CEO of Uber who testified in a recent intellectual property lawsuit over driverless car technology. Uber shareholders forced this man to resign in June 2017.

ANSWER: Travis (Cordell) **Kalanick**

[10] In February 2018, Uber settled its intellectual property suit with this company, which has accused Uber of stealing trade secrets. The settlement gives this company about \$244 million worth of Uber equity.

ANSWER: **Waymo**

[10] Waymo began as the self-driving car project at this company, which is now technically a subsidiary of Alphabet Inc. This company also created Gmail and operates a well-known search engine.

ANSWER: **Google** LLC

13. In this work, Ruth recounts how she misheard the word “pilot” for another similar-sounding word. For 10 points each:

[10] Name this operetta in which Frederic celebrates the end of his apprenticeship to the title group on his twenty-first birthday, not realizing that he was born on February 29th.

ANSWER: *The **Pirates of Penzance***; or, *The Slave of Duty*

[10] In *The Pirates of Penzance*, one character claims to have “information vegetable, animal, and mineral” and declares himself to be “the very model of a [*this three-word phrase*]”.

ANSWER: **modern Major-General**

[10] This British theatrical duo partnered with producer Richard D'Oyly Carte [“DOY-lay cart”] on *The Pirates of Penzance*, as well as on other comic operas, such as *H.M.S. Pinafore* and *The Mikado*.

ANSWER: W. S. **Gilbert** & Arthur **Sullivan** [accept Sir William Schwenck **Gilbert** & Sir Arthur Seymour **Sullivan**; accept names in either order]

14. In this book, a man uses a skull as a pillow which asks him “How do you know it’s bad to be dead?” For 10 points each:

[10] Name this book, parts of which are framed as dialogues with Huizi. It expands on the *Dao de jing* throughout its “Inner Chapters,” “Outer Chapters,” and “Miscellaneous Chapters.”

ANSWER: (the) **Zhuangzi** [“JWONG-dzuh” but accept phonetic answers; accept **Zhuangzhou**; or **Chuang tzu**]

[10] Zhuangzi could not tell whether he was a man dreaming of one of these animals, or one of these animals dreaming of a man, which exemplifies the “Transformation of Things.”

ANSWER: **butterfly** [accept **Butterfly Dream**]

[10] Zhuangzi analogized a doctrine advising to “rectify” these things to a net for catching fish. One of these words given to the central figure of the *Analects* is “Confucius,” while the one belonging to the author of the *Zhuangzi* is “Zhuangzi.”

ANSWER: **name(s)** [accept **rectification of names** or **zhengming** or **chengming**; prompt on words]

15. A lost treatise on comedy written by Aristotle is featured in this novel whose narrator is accompanied by Adso of Melk. For 10 points each:

[10] Name this novel in which Remigio, the hunchback Salvatore, and a village girl are burned by Bernard Gui.

ANSWER: *The **Name of the Rose*** [or *Il **nome della rosa***]

[10] *The Name of the Rose* was written by this author, who also wrote *Baudolino* and *Foucault’s Pendulum*.

ANSWER: Umberto **Eco**

[10] Eco’s last novel was a satire on the Italian media named for this number. This number also appears in the title of a Bret Easton Ellis novel about the college student Clay’s journey into the Los Angeles underground.

ANSWER: **zero** [accept **Numero Zero** or **Less Than Zero**]

16. In one composition by this man, flutes represent “Fighting Answerers”, while a solo trumpet poses the “Perennial Question of Existence”. For 10 points each:

[10] Name this American composer of *The Unanswered Question*.

ANSWER: Charles Edward **Ives**

[10] The second movement of this Ives work is named for Nathaniel Hawthorne and instructs the performer to create a tone cluster using a fourteen-and-three-quarter-inch piece of wood.

ANSWER: **Concord Sonata** [or **Piano Sonata No. 2, Concord, Mass., 1840-60**]

[10] This composer observed similarities between his father and Ives in the orchestral work *My Father Knew Charles Ives*. This man included the aria “I am the wife of Mao Tse-tung” in his opera *Nixon in China*.

ANSWER: John (Coolidge) **Adams**

17. Answer the following about reducing carbonyls. For 10 points each:

[10] Give the common name for the chemical N_2H_4 [N-2-H-4]. This substance is commonly found in rocket fuel.

ANSWER: **hydrazine**

[10] Name this reaction that reduces a carbonyl compound to an alkane in the presence of N_2H_4 [N-2-H-4] and a base.

ANSWER: **Wolff-Kishner** reduction

[10] The acidic analogue of the Wolff-Kishner reduction, the Clemmensen reduction, use an amalgam of this element as a catalyst. This element is also used for galvanization.

ANSWER: **zinc** [prompt on "Zn"]

18. This uprising's leader saw blood on an ear of corn and interpreted a solar eclipse as a sign from god to revolt. For 10 points each:

[10] Name this 1831 uprising that targeted plantation owners in Southampton County, Virginia.

ANSWER: Nat **Turner's** Rebellion

[10] This other slave, a blacksmith from Richmond, was subsequently hanged after his plan for starting a slave revolt was discovered. In 2007, Governor Tim Kaine granted him an informal pardon.

ANSWER: **Gabriel Prosser** [accept either underlined part]

[10] This abolitionist attempted to instigate a slave uprising by raiding Harpers Ferry. He was later executed after being captured by Robert E. Lee.

ANSWER: John **Brown**

19. Francis Crick proposed this model of genetic flow in 1958. For 10 points each:

[10] Name this model, which states that DNA is transcribed into RNA, and RNA is translated into protein. This model is unidirectional, meaning proteins cannot transfer information back to DNA.

ANSWER: **central dogma** of molecular biology [or **central dogma** of genetics]

[10] While generally correct, exceptions to the central dogma exist. For example, retroviruses use this enzyme to create double-stranded DNA from RNA.

ANSWER: **reverse transcriptase** [or **RT**]

[10] These "parasitic" segments of proteins also serve as exceptions to the central dogma, since they are able to excise themselves from the chains of amino acids, thus changing the protein's primary sequence from that originally coded by the DNA.

ANSWER: **inteins** [accept **protein introns**; do not accept "introns"]

20. The paradoxographer Pal·ae·phat·us tried to connect these tales to ordinary occurrences. For 10 points each:

[10] Name these stories studied by Euhemerus, who traced them all back to normal humans. For example, he claimed that Zeus was just a king of Crete about whom later storytellers embellished.

ANSWER: (Greek) **myths** [or **mythology**; or clear equivalents]

[10] This thinker introduced the term "mytheme" to describe the basic structural units of narrative from which myths are constructed in his paper "The Structural Study of Myth." He analogized myth-making to his concept of "bricolage."

ANSWER: Claude **Levi-Strauss**

[10] Robert Graves attempted to link all myths to a universal prehistoric lunar goddess cult in *The White Goddess*. The Greek moon goddess Selene loved this shepherd she put into an eternal sleep to maintain his youth.

ANSWER: **Endymion**