**Buckeye Spring Tournament 2012: Spider-Man Gives Chase! FAPPO!**  
All questions by Ohio State University (Max Bucher, Will Davis, Avery Demchak, Jacob Durst, Tyler Friesen, Matt Gerberich, Nandan Gokhale, Jarret Greene, Richard Hersch, Peter Komarek, Jasper Lee, Simon Lui, Lauren Menke, Asanka Nanayakkara, Brice Russ, Kirun Sankaran, Andy Sekerak, Keith Stephens, Joe Wells) and Virginia Commonwealth University (George Berry, Sean Smiley, Cody Voight)  
Edited by George Berry, Jacob Durst, Jarret Greene, Jasper Lee, Andy Sekerak and Cody Voight

**Round 8 – Tossups**

**1) Walter Murry Gibson set up a “Mormon Kingdom” in this polity before being excommunicated and serving as Prime Minister. The Morgan Report found that the Committee of Safety were not guilty in their overthrow of one government of this place, which had earlier signed the Bayonet Constitution. That document had put power in the hands of men such as (\*)** Sanford Dole. Bill Clinton signed the Apology Resolution dealing with this polity, which had earlier been ruled from the Iolani Palace by rulers such as Liluokalani and Kamehameha I. For 10 points, name this site of the Pearl Harbor attacks, the 50th US State with capital at Honolulu.   
ANSWER: **Hawaii**  
[JG]

**2) One of this man’s books as advertised as the work of an old Dutch historian was a satirical account of the title city’s past. After writing a biography of Christopher Columbus, this man was inspired to write a collection based on a tour of a Spanish palace. This man penned a work in which the title character heads into the (\*)** Catskills and wakes to find that a portrait of King George III in a pub has been replaced with one of George Washington. In another story by this author, a schoolteacher vies for the love of Katrina Van Tassel before being chased away by the Headless Horseman. For 10 points, name this author of “Rip Van Winkle” and “The Legend of Sleepy Hollow.”  
ANSWER: Washington **Irving** [accept Diedrich **Knickerbocker** before mention]  
[JG]

3) **One composer from this country wrote a work for eight choirs with five voices each, *Spem in Alium*.  A composer from this country wrote a series of variations based on friends on an unknown theme, and a series of military marches, of which the first is typically referred to as** (\*) “Pomp and Circumstance.” Another composer from this country was inspired by Thomas Tallis as well as by the film *Scott of the Antarctic*, and also wrote “The Lark Ascending.” For 10 points, name this country, home to the composer of Edward Elgar and the composer of *Fantasia on a Theme by Thomas Tallis*, Ralph Vaughan Williams.  
ANSWER: Great **Britain** [or **U**nited **K**ingdom; or **England**]  
[JL]

**4) This structure contains PML bodies and paraspeckles.  The influenza virus can only replicate while within this structure.  This organelle’s structure is supported by its lamina.  Transcription occurs in this organelle, which has a subunit that is the site of ribosome synthesis. This organelle has a double membrane lined with (\*)** pores, the outer one of which is continuous with the rough endoplasmic reticulum.  Within it is all of the cell’s genetic material, arranged into filaments called chromatin.  For 10 points, name this organelle, which is often called the control center of the cell.  
ANSWER: **nucleus**  
[JL]

**5) In one novel by this author, one character plays the trivia game Extinctathon, and later engineers a pandemic while attending the Watson-Crick Institute. In another novel by this author, a daughter of a button manufacturer battles with old age while she reminisces on Port Ticonderoga, interspersed with selections from the title** **(\*)** novel within a novel.  This author of  *Oryx and Crake* and *The Blind Assassin* wrote a novel set in the Republic of Gilead, a land ruled by a racist, chauvinistic male elite. That work by this author  is told from the point of view of The Commander’s concubine Offred. For 10 points, name this Canadian novelist of *The Handmaid’s Tale.*  
ANSWER: Margaret **Atwood**  
[JG]

**6) This compound is toxic to the human body and is thus converted by the ornithine cycle to urea. The main process for synthesizing this compound was the first industrial process to use high pressure for a chemical reaction. That process uses an iron or ruthenium catalyst. This compound is converted to (\*)** nitric acid in the Ostwald process. Mixing this an aqueous solution of this compound with bleach releases toxic chemicals. For 10 points, name this compound that is synthesized in the Haber-Bosch process and that has chemical formula NH3.  
ANSWER: **ammonia** [or **azane**; accept **NH3** before it is read; do not accept "ammonium"]  
[AN]

**7) The bloody battle of Ligny preceded this battle and kept one side from joining this battle until late afternoon. Early on, the losing side in this battle became bogged down trying to take the heavily fortified chateau Hougomont. Later in this battle, Bernhardt of Saxe-Weimar re-took Papelotte for the victors, and (\*)** Michel Ney was ordered to capture La Haye Saint for the eventual losers. A cavalry charge into Allied squares was unsuccessful and the Imperial Guard retreated shortly after the arrival of the Prussians under Gebhard von Blucher.  For 10 points, name this 1815 battle in modern-day Belgium where the Duke of Wellington defeat Napoleon, ending his Hundred Days.  
ANSWER: Battle of **Waterloo**  
[AS]

**8) In one work centered on this event, the artist depicted the Grudgers and Ricketts families, as well as Allie Mae Burroughs. In addition to Walker Evans, who captured images of this event on behalf of the Farm Security Administration, the book *You Have Seen Their Faces* was produced during this event by Margaret** (\*) Burke-White.  Memorably, in one photo from this time period, Florence Owens Thompson holds a hand to her face as her two children turn away and huddle behind her shoulders. For 10 points, name this time period best encapsulated by Dorothea Lange’s *Migrant Mother*, a 1930s economic disaster.   
ANSWER: The Great **Depression** [or The **Dust Bowl**]  
[JG]

**9) A landform called the Sleeping Giant lies off the coast of this body of water, and the Apostle Islands are located here near the Bayfield Peninsula. Two of the longest inflows of this body of water are the Pic and Saint Louis Rivers. The largest island in this body of water is the Isle (\*)** Royal, and its many shipwrecks include that of the *Edmund Fitzgerald*. Through the St. Mary’s River, this lake flows into Lake Huron, and cities on its coast include Sault St. Marie, Thunder Bay, and Duluth. For 10 points, name this body of water, the largest of the Great Lakes.  
ANSWER: Lake **Superior**  
[AS]

**10) This man’s essay *Nu* assails writers like Tudor Arghezi and Mircea Eliade, and his *Hugoliade* satirizes the life and writings of Victor Hugo. In one work by this writer, an elderly couple commits suicide after inviting over a series of invisible guests, while in another, Queens Marie and Marguerite are married to the** **dying, 400 year-old ruler of a failing kingdom. Aside from *The* (\*)** *Chairs* and *Exit the King*, this dramatist wrote a play about a visit between London couples, the Martins and the Smiths. In another, Berenger pines for his co-worker Daisy while Jean changes into the title animal. For 10 points, name this Romanian playwright of *The Bald Soprano* and *Rhinoceros*.  
ANSWER: Eugene **Ionesco**  
[AS]

**11) After saving two of these creatures, Melampus gained the ability to understand animals.  A rainbow one of these shaped the earth in the creation myth of the Aborigines.  In Norse myth, one of these creatures named Nidhogg lives at the bottom of the world tree Yggdrasil.  Tiresias changed genders after attacking (\*)** two that were mating.  Nagas are half-human and half-this creature, as is Echidna.  Apollo slew one at Delphi, and one of the most deadly types of this creature is a basilisk.  For 10 points, name this animal, which is commonly depicted as eating its own tail and is a reptile with no legs.  
ANSWER: **serpent** [or **snake**; reverse prompt if a specific snake such as “python” is given]  
[JL]

**12) One cause of this conflict was the Rebellion of Jack Cade, and James Touchet was killed leading the losing side at the Battle of Blore Heath. Supported by Charles the Bold, one leader in this war won the Battle of Barnet. After winning the Second Battle of (\*)** St. Albans in this war, Margaret of Anjou and Edmund Beaufort were defeated by Edward IV at Tewkesbury. This war ended after Henry VII prevailed at Bosworth Field, where Edward’s brother Richard III was killed. For 10 points, identify this 15th century English civil war, named for the floral symbols of the opposing Houses of Lancaster and York.  
ANSWER: **War**(s) **of the Roses**  
[AS]

**13) One variant of this logical operation computes the sum, not the carry out, in half adders and full adders. A bitwise variant of this logical operation is represented by a caret in C, is true only when the bits differ, and is the exclusive type. In C, the bitwise and logical forms of this operation are represented by a single pipe symbol and two pipe symbols, respectively. Taking the (\*)** union of a set is equivalent to this logical operation. According to De Morgan's laws, the not of the expression that contains this operation performed on A and B is equal to not A dot not B. It is often represented by plus. For 10 points, name this operation that is true if any input is true and is contrasted with and.  
ANSWER: inclusive **or** [or logical **disjunction**; accept **U** or set **union** before "union" is read; accept **plus** before it is read]  
[CV]

**14) In the last composition in a series by this man, onlookers peek over a wall as six soldiers shoot the title character, being *Death of Maximilian*. A black cat stands on the right of the bed while a servant presents flowers to the title reclining nude modeled after Titian’s** **(\*)** *Venus of Urbino* in another work of this man. In addition to *Olympia,* this man painted a woman framed by bottles of beer, champagne and a platter of oranges while a mustachioed man talks to what could be a reflection in *A Bar at the Folies-Bergere*. For 10 points, name this French artist who painted a bather by a forest behind two men dining with a nude woman in *The Luncheon on the Grass*.  
ANSWER: Edouard **Manet**  
[MJB]

**15) George Orwell called this thinker “a bag of wind” and threatened to “give him a good boot” in a comment on this thinker’s book *Anti-Semite and Jew*. This philosopher commented on the *négritude* movement in an essay called “Black Orpheus,” and coined the phrase** **(\*)** “existence precedes essence” in the lecture “Existentialism is a Humanism.” He wrote one work in which three people are locked in a room, and discover that “hell is other people” but declined the Nobel Prize in Literature won in part for that play *No Exit*. For 10 points, name this French philosopher, the lover of Simone de Beauvoir and author of *Being and Nothingness*.  
ANSWER: Jean-Paul **Sartre**  
[KS]

**16) This physicist's namesake effect revealed a connection between optics and electromagnetism and is also known as magnetically induced circular birefringence. In an experiment named for him, a charged sphere lowered into an uncharged ice pail induces an equal and opposite charge on the ice pail. That experiment is the basis behind his namesake (\*)** cage. His most well-known law includes a minus sign as a consequence of induced electric current flowing in such a direction as to oppose the change that induced it. That law states that induced emf is equal to the negative time derivative of magnetic flux. For 10 points, name this physicist who names a law of induction and the SI unit of capacitance.  
ANSWER: Michael **Faraday**  
[AN]

**17) Followers of this denomination are taught that Satan was cast from Heaven on October 1st, 1914. Members of this religion practice Disfellowship, a ritualistic form of shunning.  Followers of this religion do no celebrate (\*)** birthdays or other holidays, and a namesake “Society” within this religion publishes *The Watchtower*. They hold that exactly 144,000 humans will be allowed into heaven after the End Times. Since 1961, this religion has prohibited its members from receiving blood transfusions. For 10 points, name this Christian sect which worships in Kingdom Halls and often shows up at your front door.   
ANSWER: **Jehovah’s Witnesses** [accept **Watchtower Bible and Tract Society**; prompt on “Bible Student Movement”]  
[JG]

**18) This man's son Daken replaced him in the Dark Avengers, and Laura Kinney is an assassin codenamed X-23 cloned from the DNA of this character. When teamed with Colossus, this man is often thrown at enemies as a (\*)** "Fastball Special." In the past, this character has taken teammates Kitty Pride and Jubilee under his wing. In the Fatal Attractions arc, Magneto removed a substance from this character's body that had been implanted by the Weapon X program. For 10 points, name this member of the X-Men with an adamantium skeleton that includes six retractable claws.  
ANSWER: **Wolverine** [or **Logan**, or James **Howlett**]  
[GB]

**19) Kings of this empire were known as Sapa and one such ruler was known as the “earth-shaker” and brought this empire to its greatest extent; that man was Pachacuti**. **This empire’s downfall came in the midst of a civil war between Huascar and his brother. Hiram Bingam discovered one outpost of this empire, and (\*)** Tupac Amaru was its last ruler.This empire used a knot system called quipu for communication. Founded by the legendary Manco Capac, its capital was at Cuzco. For 10 points, name this civilization and builder of Machu Picchu based in modern-day Peru, which was conquered by Fransisco Pizarro.  
ANSWER: The **Inca**n Empire [or **Tahuantinsuyo**]  
[JG]

**20) One playwright from this country wrote of the pen pal Miss Ethel Lange going to meet a man impersonated by his brother Morrie. That playwright also wrote a work in which one of the title characters attempts to write an essay about ballroom dancing, and tells Sam that “you can’t fly kites on rainy days.” Novels from this country include a work in which a corpse shows up on Mehring’s farm, *The* (\*)** *Conservationist*. An author from this country wrote a novel in which Stephen Kumalo arrives in the city to learn his son has murdered Arthur Jarvis. For 10 points, name this home of Athol Fugard, Nadine Gordimer, and Alan Paton, whose works often deal with apartheid.  
ANSWER: Republic of **South Africa**  
[JD]

**TB) This man's first published work was *German Social Democracy*, which he would later lecture on at the London School of Economics. In 1901, he discovered his namesake paradox, challenging Cantor's Naive Set Theory. He introduces definite and indefinite descriptions, and formulates descriptivism of proper names in his essay (\*)** “On Denoting.” He wrote against war and totalitarianism, and against religion in “Why I am not a Christian”. For 10 points, name this Welsh philosopher and mathematician who won the 1950 Nobel Prize in Literature, and who co-authored “Principia Mathematica” with Alfred Whitehead.  
ANSWER: Bertrand **Russell**  
[WD]

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**Round 8 – Bonuses**

1) Answer the following about 20th century American composers lesser known for their work in opera, for 10 points each.  
[10] This composer of the opera *Vanessa* is more famous for a piece played during the announcement of the death of Franklin Delano Roosevelt, his “Adagio for Strings.”   
ANSWER: Samuel **Barber**  
[10] This composer included "Summertime" in his *Porgy and Bess*, but and and is well known for working with his brother Ira and for creating a work that opens with a clarinet glissando, “Rhapsody in Blue.”  
ANSWER: George **Gershwin**  
[10] The king of the rag, Scott Joplin, composed this opera that went unperformed for over sixty years. In this opera, the title character refuses to purchase a bag of luck from conjurers.  
ANSWER: ***Treemonisha***  
[GB]

2) This character from Brewer, Pennsylvania impregnates the prostitute Ruth Leonard, and his daughter Rebecca June is drowned by his wife Janice. For 10 points each:  
[10] Name this former high school basketball star who suffers a heart attack after a pickup game. Minister Jack Eccles talks to this character about his troubled marriage, and he inherits his father-in-law’s Toyota dealership.  
ANSWER: **Harry** **“Rabbit”** **Angstrom**(accept any underlined part)  
[10] Rabbit is the protagonist of a series of four novels by this American author. This writer also produced the poetry collection *The Carpentered Hen*, as well as the novels *The Centaur*, *Couples*,and *In the Beauty of the Lilies*.  
ANSWER: John **Updike**  
[10] This Updike novel is set in the title Rhode Island town. It centers on the magic-wielding characters of Lexa, Jane, and Sukie and their relationship with the mysterious and Devilish Darryl Van Horne.  
ANSWER: *The* ***Witches of Eastwick***  
[AS]

3) Name some kings from the Old Testament for 10 points each.  
[10] This King of Israel, a notable ancestor of Jesus Christ, brought the Ark of the Covenant to Jerusalem. In his younger years, he used a sling to kill the giant Goliath.  
ANSWER: King **David**  
[10] King David’s son was this king and builder of the First Temple, who once revealed the true mother of a child by suggesting that it should be cut in half. The Song of Songs is often known by this man’s name.  
ANSWER: King **Solomon**  
[10] In 2 Kings and 2 Chronicles, this Assyrian king sent an army against King Hezekiah and the Judeans, but had 185,000 of his troops killed by an angel overnight.  
ANSWER: King **Sennacherib**  
[BR]

4) This novel begins with a “Miss Wonderly” convincing Miles Archer to follow Floyd Thursby for her. For 10 points each:  
[10] Name this novel centering on Sam Spade, who tries to find out who murdered Archer while also trying to locate the namesake statue desired by Gutman.  
ANSWER: *The* ***Maltese Falcon***  
[10] *The Maltese Falcon* is a novel by this writer of detective stories, who also penned *The Red Harvest* and *The Glass Key*. This lover of Lillian Hellman also wrote *The Thin Man.*   
ANSWER: Dashiell **Hammett**  
[10] In *The Thin Man*, Hammett wrote about this mystery-solving couple who attempt to locate the missing Clyde Wynant when not boozing it up.   
ANSWER: **Nick and Nora** **Charles** [accept either underlined portion]  
[JG]

5) Often thought of as living in extreme environments such as salt lakes and anoxic locations, they are actually found pretty much everywhere.  For 10 points each:  
[10] Name this domain of single-celled organisms which do not have peptidoglycan in their cell walls and often carry out unique forms of metabolism, such as methanogenesis.  
ANSWER: **Archaea**  
[10] Archaea and Bacteria were once classified under a single kingdom with this name, but this kingdom was separated once Archaea were found to be genetically closer to eukaryotes.  
ANSWER: **Monera** [accept **Moneran**s]  
[10] This scientist and author of Systema Naturae developed the method of taxonomy that we still use today, such as the use of binomial nomenclature.  
ANSWER: Carl **Linnaeus**  
[JL]

6) This son of Sweyn Forkbeard succeeded Edmund Ironside as King of England in 1016. For 10 points each:  
[10] Identify this monarch advised by Wulfstan of York to emulate the past rule of King Edgar. He also took Norway’s throne in 1028, because why not.   
ANSWER: **Canute** I (accept **Canute the Great**)  
[10] Canute was descended from these Scandinavian seafarers who never wore horned helmets. These marauders conducted numerous raids on the British Isles, including an infamous 793 assault on the Lindisfarne monastery.   
ANSWER: **Viking**s  
[10] This king of Wessex repelled an invasion of Vikings at the Battle of Edington. His administrative skills and military prowess made him the only English monarch to receive the epithet of “Great.”  
ANSWER: **Alfred** the Great  
[AS]

7) On January 18th, 2012, many websites, including Wikipedia, were "blacked out" in protest of this piece of legislation. For 10 points each:  
[10] Name this legislation introduced in the House of Representatives by Lamar Smith that would require websites to be responsible for the copyright of posted content, bypassing previous "safe harbor" provisions.  
ANSWER: **S**top **O**nline **P**iracy **A**ct   
[10] Shortly after the blackout protests, megaupload.com was shut down, prompting this organization to take down the website of the Department of Justice. These hackers are long-time foes of the Church of Scientology.   
ANSWER: **Anonymous**   
[10] Ironically, the United States waited 100 years to sign on to this international copyright law agreement. It was created at the behest of Victor Hugo and is named for a Swiss city.  
ANSWER: **Berne** Convention for the Protection of Literary and Artistic Works   
[GB]

8) This group sought to replace continental European styles in their home country, and was led by the composer of the oriental fantasy *Islamey*. For 10 points each:  
[10] Name this group of composers which included Cesar Cui and the composer of “The Flight of the Bumblebee,” Nikolai Rimsky-Korsakov.  
ANSWER: Russian **Five** [or Mighty **Five**, or **Mighty Handful**]  
[10] This member of the Mighty Five composed the opera *Boris Godonov* and a work inspired by an art gallery, *Pictures at an Exhibition*.  
ANSWER: Modest **Mussorgsky**  
[10] This piece by Mussorgsky is a setting of a legend of a witches sabbath on near Kiev.  In *Fantasia*, this piece accompanies a short in which Chernobog raises armies of skeletons.  
ANSWER: ***Night on Bald Mountain*** [or ***Night on Bare Mountain***]  
[GB]

9) The churning of the ocean of milk was an important event in Indian myth.  Answer the following about it, for 10 points each:  
[10] The snake Vasuki’s venom poisoned the milk, but this god of destruction swallowed the poison, turning his throat blue.    
ANSWER: **Shiva**  
[10] One of the results of the churning was the creation of this goddess of wealth, luck, and light, who became Vishnu’s consort.  
ANSWER: **Lakshmi**  
[10] Vishnu’s avatar during this time was that of Koorma, which was one of these creatures.  While in that form Vishnu dove under the ocean, it is seen as a symbol of wisdom and immortality in other cultures.  
ANSWER: sea **turtle**s  
[JL]

10) A Middle Age precursor to this nation was the Kingdom of Aksum. For 10 points each:  
[10] Name this African nation with capital at Addis Ababa, which has been ruled by men such as Emperor Tewodros II.  
ANSWER: **Ethiopia**  
[10] In 1935, Italy invaded Ethiopia, which was then ruled by this emperor. This leader made a passionate appeal for help from the League of Nations before being overthrown by the Mengistu-led Derg.  
ANSWER: **Halie Selassie** I [or Tafari **Makonnen]**  
[10] Under the rule of Menelik II, Ethiopia scored a rare victory for native Africans by defeating a large Italian army under Oreste Baratieri at this battle in 1896.  
ANSWER: Battle of **Adowa** [or **Adwa]**  
[JG]

11) The central building in this painting features an advertisement for five-cent Phillies cigars. For 10 points each:  
[10] Name this painting in which the title group of people are gathered at night in a diner with windows but no doors to the outside.  
ANSWER: ***Nighthawks***   
[10] This American painter of *Automat* depicted a woman dining with her doppleganger in *Chop Suey* in addition to painting *Nighthawks*.  
ANSWER: Edward **Hopper**   
[10] Hopper's *House by the Railroad* was the first painting acquired by this Manhattan museum. It is also the home to Jasper Johns' painting *Flag*, Piet Mondrian’s *Broadway Boogie Woogie*, and Andrew Wyeth’s *Christina’s World.*   
ANSWER: **Museum of Modern Art** [or **MoMA**]  
[GB]

12) This man captured and castrated the pirates who had captured him. For 10 points each:  
[10] Name this Roman politician who after being named dictator for life, was assassinated by a group of senators including Brutus on the Ides of March.  
ANSWER: Gaius Julius **Caesar**  
[10] From 58-51 BCE, Caesar undertook a series of campaigns in this province, now most of modern-day France. It ended with Caesar’s victory over Vercingetorix at the Battle of Alesia.  
ANSWER: **Gaul**  
[10] Following success in Gaul, Caesar crossed the Rubicon with one legion, starting a civil war with this consul. Earlier, this former ally of Caesar had cleared the Mediterranean of Pirates and defeated Mithridates of Pontus.  
ANSWER: Gnaeus **Pompeius** Magnus [Accept **Pompey** the Great]  
[JG]

13) This river is formed by the confluence of the Jackson and Cowpasture Rivers, and the area between this river and the York is known as The Peninsula. For 10 points each:  
[10] Name this body of water named by Christopher Newport for the King of England at the time, located near England’s first permanent settlement in North America.  
ANSWER: **James** River  
[10] The James River empties into this largest estuary in the United States, which separates the Delmarva Peninsula from the mainland, and is crossed by a namesake Bridge-Tunnel. The Potomac also flows into it.  
ANSWER: **Chesapeake** Bay  
[10] Richmond is the limit of navigation on the James River because of its location along one of these geographic objects in which hard basement rock gives way to a coastal plain.  
ANSWER: **Fall Line**  
[GB]

14) This mineral lies at the bottom of Bowen's reaction series. For 10 points each:  
[10] Identify this second most abundant mineral in the Earth's crust.  
ANSWER: **quartz**  
[10] Quartz is a dioxide of this element, with each oxygen being shared between two of atoms of this element. By far the majority of minerals in the Earth's crust consist of this element, oxygen and a metal.  
ANSWER: **silicon**  
[10] This metamorphic rock consists mostly of micas, although some types feature significant inclusions of quartz. It also comes in blue and green varieties, is easily split into thin layers and is usually formed from basalt, slate or shale.  
ANSWER: **schist**  
[JL]

15) In this novel, Will Ladislaw is elected to Parliament after working for the newspaper *The Pioneer*. For 10 points each:  
[10] Identify this novel that features the strained marriage of Dorothea Brooke to the scholar Edward Casaubon, which contrasts with the happier relationship between her sister Celia and James Chettam.  
ANSWER: ***Middlemarch***  
[10] In addition to penning *Middlemarch*, this Victorian-era writer briefly served as editor of the *Westminster Review* before beginning her novelistic career with such works as *Silas Marner* and *The Mill on the Floss*.  
ANSWER: George **Eliot** [or Mary Anne **Evans**]  
[10] In this work by Eliot, set in the town of Hayslope, the title character forces Arthur Donnithorne to end his relationship with Hetty Sorrell, who is convicted of infanticide and exiled after confessing to the preacher Dinah.  
ANSWER: ***Adam Bede***  
[AS]

16) Answer the following about psychologists, for 10 points each:  
[10] This Russian psychologist was a pioneer of classical conditioning. He used dogs to demonstrate his theory of conditioned reflexes, making them salivate at the sound of a bell.  
ANSWER: Ivan Petrovich **Pavlov**  
[10] Preoperational names one stage in this Swiss psychologist’s four-stage model of cognitive development. He devised the theory of object permanence, which occurs in infancy during the sensorimotor stage.  
ANSWER: Jean **Piaget**  
[10] This other developmental psychologist coined the phrase identity crisis. Expanding on Freud, he believed humans never cease developing, undergoing eight stages, including “Trust vs. Mistrust” and “Intimacy vs. Isolation.”  
ANSWER: Erik **Erikson**  
[AS]

17) This quantity is the energy of the most energetic intermediary in a chemical reaction. For 10 points each:  
[10] Name this quantity, the amount of energy needed to carry out a chemical reaction.  
ANSWER: **activation** energy  
[10] At this point along a reaction coordinate, colliding reactant molecules will always go on to form products. According to the Hammond postulate, its structure resembles the reaction species closest to it in free energy.  
ANSWER: **transition** state  
[10] This equation named for a Swedish chemist relates the equilibrium constant with the activation energy and is used to compute the rate constant.   
ANSWER: **Arrhenius** equation  
[JG]

18) This man controversially used regular troops to disperse the Bonus Army and later led the Luzon campaign. For 10 points each:  
[10] Name this general who instituted the “island hopping” strategy in the Pacific theater of World War II, where he would eventually serve as supreme commander of American forces, overseeing the Japanese surrender.  
ANSWER: Douglas **MacArthur**  
[10] MacArthur would later be relieved of his command by President Truman during this conflict. This war would ultimately result in an armistice, which created a demilitarized zone on its namesake peninsula across the 38th parallel.  
ANSWER: **Korean** War  
[10] The Korean War saw this 1950 battle, an amphibious landing of Marines orchestrated by MacArthur. Codenamed Operation Chromite, the U.S. landed troops at Green, Red, and Blue Beaches and assaulted fortifications at Wolmi-do.  
ANSWER: Battle of **Inchon**  
[AS]

19) A system consisting of two coupled ones of these objects exhibits chaotic motion. For 10 points each:  
[10] Name this object that has an isochronous period under small-angle approximations and whose most well-known type is the Foucault one.  
ANSWER: **pendulum**s  
[10] Pendulums are an example of this kind of system. Other types of this system include masses on a spring, which obey Hooke's law, and an analogous quantum version.  
ANSWER: simple **harmonic oscillator**  
[10] This effect causes the amplitude of oscillations of a simple harmonic oscillator to decrease with time. It is commonly caused by frictional forces.  
ANSWER: **damping** [accept word forms]  
[MG]

20) In this work, the Jewish Jesuit Naphta commits suicide after Setembrini is unwilling to engage him in a duel. For 10 points.  
[10] Name this novel that sees Hans Castorp visit his cousin Joachim at a sanitarium in the Swiss Alps before being committed himself. In this novel, Claudia Chauchat spurns Hans, who leaves to fight in World War I.  
ANSWER: *The* ***Magic Mountain***  
[10] *The Magic Mountain* is by this German novelist who wrote about Gustav von Aschenbach’s infatuation with the Polish boy Tadzio in the novella *Death in Venice.*  
ANSWER: Thomas **Mann**  
[10] Mann’s first novel was this work which follows the titular Lübeck merchant family and ends with the death of Little Hanno from Typhoid fever.   
ANSWER: ***Buddenbrooks***  
[AS/JG]

TB) Name some symbiotic relationships for 10 points each.  
[10] In this symbiotic relationship, one party benefits while another is harmed. Common examples of this relationship may include tapeworms in humans, or fleas and ticks on dogs.  
ANSWER: **parasitic** [accept **parasite**]  
[10] Conversely, both species benefit in this type of symbiotic relationship, such as when microbes aid in the digestion of larger animals in return for a steady supply of nutrients.  
ANSWER: **mutualistic** [or **mutualism**]  
[10] In a classic, but apocryphal, mutualistic relationship, the plover bird cleans the teeth of this reptile in exchange for food.  
ANSWER: the Nile **crocodile**  
[BR]