



HSAPQ

High School Academic Pyramid Questions

2008-2009
ACF-Format Set #3

Round 5

Tossups

1. A mosaic of the *Annunciation* by Ghirlandaio is in this building, as is the *Assumption of the Virgin of Nanni di Banco* and Tino di Camaino's *Tomb of Bishop Orso*. Its construction was begun by Arnolfo di Cambio, and Federico Zuccari and Giorgio Vasari created its fresco of *The Last Judgment*. Giotto designed this building's accompanying (*) bell tower, and a nearby baptistry features doors decorated by Andrea Pisano and Lorenzo Ghiberti as *The Gates of Paradise*. For 10 points, name this cathedral featuring a gigantic dome designed by Filippo Brunelleschi.

ANSWER: Florence Cathedral [accept Duomo of Florence; or Basilica di Santa Maria del Fiore]

2. This man's son argued for the legalization of suicide in his opera *Der Friedensengel* and tackled abortion in *Der Kobold*. One of his own operas sees the dueling arias "Blick' ich umher" and "Dir Göttin der Liebe"; another song contest by this man sees Sixtus Beckmesser self-destruct while trying to perform the "Prize Song." (*) Elsa and a knight celebrate their marriage in this man's oft-performed Wedding March. For 10 points, name this composer of *Tannhäuser*, *The Mastersingers of Nuremberg*, *Lohengrin*, and four operas comprising his *Ring Cycle*.

ANSWER: Richard Wagner

3. This ruler erected the *Sainte-Chapelle* to house relics he bought off of Baldwin II. The revolts of Pierre Mauclerc and Duke Raymond of Toulouse were suppressed early in his reign, and, later, he unsuccessfully tried to settle a controversy between Henry III and the English barons. He was succeeded by Philip III and captured at (*) al-Mansurah in 1250. His mother, Blanche of Castile, served as his regent. For 10 points, name this French king who took part in the Seventh and Eighth Crusades, canonized in 1297.

ANSWER: Louis IX [or Saint Louis]

4. One candidate in this election declared "You can't shoot an idea with a gun" in the first ever radio debate between candidates. In this election, Minnesotan Harold Statten had an early lead in the Republican primary but lost to Robert Taft in Ohio. The Democrats chose Alben (*) Barkley as VP but suffered a split when a civil rights platform caused Strom Thurmond to storm out of the convention. For 10 points, name this election that saw the continued domination of the Democrats, despite a Chicago Tribune headline claiming "Dewey Defeats Truman."

ANSWER: Election of 1948

5. This artist painted a house with nine columns from an angle that obscures the bottom with brown-orange metal strips, in a work titled *House by the Railroad*. A barber pole and a fire hydrant cast long shadows in front of a row of shops in his *Early Sunday Morning*, and two women sit at a table with a blue bowl and red teapot with a visible sign for (*) the title food of his *Chop Suey*. This man also advertised five-cent Phillies in a painting of two men and a red-haired woman sitting at a diner. For 10 points, name this painter of *Nighthawks*.

ANSWER: Edward Hopper

6. Lines of springs are characteristic of these objects, and the classic theory of their formation is named after Anderson. One type of these objects is divided into “leaky” and “transpressional” types, and in a “reverse” one, the hade is toward the upthrow side. A “reverse” one is almost always a (*) dip-slip type, since in the strike-slip type the walls move horizontally rather than vertically. For 10 points, name these “cracks” in the Earth’s crust where one part of the crust moves against another part, a prominent example of which is the San Andreas.

ANSWER: faults [or faultlines; prompt on transverse plate boundaries]

7. In a play by this man, Bertha turns to Robert Hand after feeling neglected by the writer Richard Rowan. One of his stories focuses on the death of the priest Father Flynn, and another of his stories concerns a party hosted by Julia and Kate Morkan at which Greta reveals her love for the (*) dead Michael Furey. In addition to that story about Gabriel Conroy, he wrote a novel which takes place on June 16, 1904, and follows Leopold Bloom’s journey through Dublin. For 10 points, name this author of *Exiles*, *Dubliners*, and *Ulysses*.

ANSWER: James Augustine Aloysius Joyce

8. This scientist lends his name to a theory of dilute colloidal solutions. Vacuum fluctuations at a length scale named for him result in quantum foam. He sought to overcome the deficiencies of the Rayleigh-Jeans law and Wien’s law to develop a universal law governing the (*) quantized emission of radiation from a perfect emitter. For 10 points, name this individual who developed a law relating blackbody radiation to temperature, and whose namesake constant, symbolized h , relates the energy of a photon to its frequency.

ANSWER: Max Karl Ernst Ludwig Planck

9. This river passes through Ponca State Park, and it ultimately begins at Brower’s Spring. The Pick-Sloan program developed this river, resulting in the creation of Lake Sharpe behind Big Bend Dam, as well as Fort Peck Dam. It forms near Three Forks where the (*) Gallatin, Jefferson, and Madison rivers meet, and its tributaries include the Yellowstone and Platte rivers. It passes by the state capitals of Bismarck and Pierre after beginning in Montana. For 10 points, name this river that flows past St. Louis before entering the Mississippi in its namesake state.

ANSWER: Missouri River

10. The title character of this novel dreams that his grandfather makes him look inside a calfskin briefcase, revealing a slur-containing note. Dr. Bledsoe expels the protagonist after he shows Mr. Norton the “seamy” campus. The title character imitates Rinehart and fights Ras the (*) Destroyer after he joins the Brotherhood, and he earlier worked at Liberty Paints. The first chapter of this novel details how black students fight and pick up coins on an electrified mat in the “Battle Royal.” For 10 points, name this novel about an identity-less narrator, by Ralph Ellison.

ANSWER: Invisible Man [do not accept “The Invisible Man”]

11. Deviations from this equation can be found by plotting the compressibility factor against pressure; the virial expansion is often used to measure those deviations. The Peng-Robinson equation is a good alternative to this equation at low pressures and the Redlich-Kwong equation is a better alternative at high pressures. A more common alternative is an equation that introduces parameters (*) a and b , the van der Waals equation. For 10 points, name this equation of state describing the behavior of a sufficiently dilute gas, which states that PV equals nRT .

ANSWER: ideal gas equation or law

12. In the *Qur'an*, he is referred to as the prophet Yahyá and is imprisoned in the citadel Machaerus prior to his death. An angel strikes Zacharias dumb for doubting that this figure will be born. His condemnation of the marriage between Herodias and her brother-in-law Herod Antipas results in his (*) death at the behest of Herodias' daughter Salome. He subsists off locusts and wild honey, and, in Isaiah, he is described as "a voice that crieth out in the wilderness." For 10 points, name this son of Elizabeth who blessed Jesus by immersing him in the River Jordan.

ANSWER: John the Baptist [prompt on John]

13. One type of this was measured on the "F-scale" in a book which found that "anti-intracception," superstition, and obsession with sex and power comprised its "authoritarian" type. Histrionic, dependent, and schizoid are among the types of disorders that can affect it. Tests which attempt to categorize this include the TAT and the Minnesota-developed (*) MMPI. Another test divides it into sixteen "types" based on such qualities as "judgment" and "introversion." For 10 points, a Myers-Briggs test evaluates what thing, the sum of an individual's behavioral characteristics?

ANSWER: personality

14. This character is the only known client of the "Parental Revenge Center," and, in another episode, he becomes the only friend of the Arab student Bahir. In one episode, he is repeatedly mistaken for a dog after getting a ninja star stuck in his eye, and he also fakes his own death so he can return as the "new girl" (*) Marjorine. As the "creator," he thinks everyone back into existence at the end of the Imaginationland epic, and he is the creator of Professor Chaos. For 10 points, name this naïve blonde-haired kid from *South Park*.

ANSWER: "Butters" Stotch [accept either part]

15. Monoclonal antibody A33/22 recognizes a protein on the loop of the "lampbrush" type of these objects. Treating them in hot alkaline solution before staining them with Giemsa reagent produces R bands, and the presence of Bcr-Abl diagnoses one of these named for (*) Philadelphia. Missing or extra ones of these objects is usually due to nondisjunction, and a karyotype portrays all of them. For 10 points, name this structure visible during metaphase consisting of two sister chromatids, of which humans have 23 pairs.

ANSWER: chromosomes

16. The Bar-le-Duc road became known as the Sacred Way due to its vital role in this battle, and Fort Douamont and Fort Vaux both fell during it. Eric von Falkenhayn was dismissed as chief of the General Staff by Kaiser Wilhelm for his failure to win this battle, and Philippe (*) Petain became a national hero in France for his role in stopping the German advance in this battle. For 10 points, name this devastating 1916 battle of World War I in which French forces repulsed a German offensive on the namesake fortress on the Meuse River.

ANSWER: Verdun

17. This word names a Christopher Okigbo poem usually published with "Path of Thunder," and Robbe-Grillet wrote a novel titled for being in one. A work with this title is a sampling of stories from works like *Doctor Brodie's Report* and *Ficciones* by (*) Jorge Luis Borges, and this word describes the title place of a Borges short story about Yu Tsun. The title character learns that Sucre has been killed in a Garcia Marquez novel about "The General in His" one of these. For 10 points, Octavio Paz wrote about Mexican culture in a work about what entity "of Solitude"?

ANSWER: labyrinths [accept laberintos]

18. The first of these conflicts included the battles of Laing's Nek and Majuba Hill. The second one was orchestrated by Viscount Milner and Joseph Chamberlain, and attempted to raise the status of the "Uitlanders" within a state governed by Paul Kruger. After "Black Week," Lord Kitchener instituted a scorched-earth policy to capture (*) Bloemfontein in these wars. The Peace of Vereeniging ended the second of these wars and allowed Britain to occupy the Transvaal. For 10 points, name these conflicts between Britain and the namesake Dutch-descended South Africans.

ANSWER: Boer Wars

19. Agnar gave this figure drink while he was the prisoner of Geirröd, and this figure turned into a snake to seduce Gunnlöd and gain the mead of Kvasir. With his brothers Vili and Ve he slew the giant Ymir, and his sons include Vali and Vidar. He sacrificed himself to himself when for nine days he hung from (*) Yggdrasil, and, in order to drink from Mimir's well, he gave up his eye. The owner of the spear Gungnir and the eight-legged horse Sleipnir, he will be eaten by Fenrir at Ragnarok. For 10 points, name this All-Father, the leader of the Norse gods.

ANSWER: Odin [or Wodin or Wotan]

20. This author wrote a story in which the title character prepares a meal for Norwegians named Martine and Philippa. That story, "Babette's Feast," is found with "The Deluge at Norderney" in one of this author's collections. A novel by this author tells of a hunter named Denys Finch-Hatton who dies when his "moth machine" airplane crashes. That (*) autobiographical novel by this author of the *Seven Gothic Tales* tells of her divorce from Bror on a Kenyan coffee plantation. For 10 points, name this Danish author of *Out of Africa* whose real name was Karen Blixen.

ANSWER: Isak Denisen [accept Karen Blixen before it is mentioned]

21. The area under the reversible magnetization curve of a superconductor is equal to the difference in one type of this quantity between the normal and superconducting states. The change in another type of this quantity is equal to negative $R T$ times the natural log of the equilibrium constant by the (*) Nernst equation. Both types equal the change in either internal energy or enthalpy minus the product of temperature and the change in entropy. For 10 points, name this kind of energy that comes in Helmholtz and Gibbs types, the energy available to do work.

ANSWER: free energy [accept condensation energy until "difference"; accept Helmholtz free energy before "another type"]

22. This man successfully opposed the Radowitz Plan and bribed reporters to support his government with the Reptile Fund. He implemented the first state old-age pension in modern history, and his subordinate Adalbert Falk issued the May Laws, part of this man's (*) struggle with Pope Pius IX, the anti-Catholic *Kulturkampf*. He also altered the Ems Dispatch to provoke a war with Napoleon III's France, which led to the declaration of Wilhelm I as Emperor. For 10 points, name this Prussian politician who engineered the creation of Germany.

ANSWER: Otto von Bismarck

23. The title character of this work laments that he is "pigeon-liver'd" and a "rogue and peasant slave." One character sends Reynaldo to spy on his son, and the courtier Osiric serves as a messenger in this play. The title character ponders shuffling off of "this (*) mortal coil," and this work ends with a call to put the title character's body on a platform by Horatio, who tells the invading Fortinbras the story. For 10 points, name this Shakespeare play in which Claudio kills his brother and Ophelia drowns.

ANSWER: Hamlet



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Bonuses

1. The first chapter of this work was previously published as the short story *The Stoker*. For 10 points each:

[10] Name this work about Karl Rossman's arrival in New York and disappearance on his way to Oklahoma.

ANSWER: **Amerika**

[10] *Amerika* is a work by this Austrian author of *The Castle*, *A Hunger Artist*, and *In the Penal Colony*.

ANSWER: Franz **Kafka**

[10] Kafka also wrote this novel which includes the short story *Before the Law*. In it, Josef K. is arrested for an unspecified crime, and forced to undergo the title legal proceedings.

ANSWER: *The* **Trial** [accept *Der* **Process**]

2. At the end of the work he appears in, he sings a copper boat into existence and sails away across the sea. For 10 points each:

[10] Name this figure of Finnish mythology who protects the Sampo of the smith Ilmarinen in the *Kalevala*.

ANSWER: **Väinämöinen**

[10] Väinämöinen was killed by Louhi while hunting one of these birds in the Tuonela River. In Greek myth, Zeus took the form of ones of these birds to seduce Leda.

ANSWER: **swans**

[10] Väinämöinen's fate of having his body dismembered and scattered in the river only to later be resurrected mirrors that of this Egyptian god of the underworld, whose wife Isis revived him after he was killed by his brother Set.

ANSWER: **Osiris**

3. Marco Polo went searching for this man in Nestorian regions of Asia, and he was later thought to be Ethiopian. For 10 points each:

[10] Name this legendary Christian king, whom medieval Crusaders thought to be the ruler of a remote Christian kingdom that could be called upon for aid in battle.

ANSWER: **Prester John**

[10] This actual African king was a ruler of Mali who built the Great Mosque of Timbuktu and inadvertently debased the gold coins of Egypt during a lavish pilgrimage to Mecca in the 1310s.

ANSWER: Mansa **Musa**

[10] Mansa Musa briefly conquered the city of Gao, the seat of this other empire, which became prominent again in the 1490s when it was led by Sonni Ali and Muhammed Askia.

ANSWER: **Songhai**

4. In order to have a baby, Serena Joy makes this novel's protagonist sleep with Nick. For 10 points each:
[10] Name this novel about Offred, who is forced to perform the title occupation in the Republic of Gilead.

ANSWER: *The **Handmaid's Tale***

[10] This Canadian author of *Oryx and Crake* wrote *The Handmaid's Tale*.

ANSWER: Margaret **Atwood**

[10] This other Canadian author grew up in Sri Lanka. His novels include *In the Skin of a Lion*, *Anil's Ghost*, and *The English Patient*.

ANSWER: Michael **Ondaatje**

5. As carbon dioxide levels increase, the rate of this process decreases. For 10 points each:

[10] Name this process that only occurs when the stomata are open, the evaporation of water as water vapor from plant leaves.

ANSWER: **transpiration**

[10] Before being transpired, water is carried from the roots to the leaves via this vascular tissue, contrasted with phloem.

ANSWER: **xylem**

[10] Water is transported up the xylem against gravity by this principle, the tendency of liquids to drag upwards as a result of surface tension and adhesion to the walls of narrow tubes.

ANSWER: **capillary action**

6. This man received his byname at the Battle of Graus, and he later fought for Sancho II of Castile. For 10 points each:

[10] Name this figure, whose exploits in both internecine wars among Christian Spanish kingdoms and the ongoing war against Muslim Spain made him the Spanish national hero.

ANSWER: El **Cid** [or Rodrigo/Ruy **Díaz** de Vivar]

[10] This Spanish name is given to the campaign to overtake the Muslim kingdoms, which ended in 1492 when Ferdinand and Isabella conquered the last Almohad outpost.

ANSWER: La **Reconquista** [or **Reconquest**]

[10] This was the final kingdom conquered by Ferdinand and Isabella. The Alhambra is located here.

ANSWER: **Granada**

7. He defeated Jack Nelson-Pallmeyer to win the nomination of the Democratic-Farmer-Labor Party. For 10 points each:

[10] Name this satirist and 2008 senate candidate who passed his opponent Norm Coleman in votes after a recount.

ANSWER: Alan Stuart **Franken**

[10] Franken is attempting to gain a senate seat from this state, whose governor is Tim Pawlenty. Notable politicians from this state have included Hubert Humphrey and Walter Mondale.

ANSWER: **Minnesota**

[10] Coleman first gained his seat in the 2002 election when this DFL senator and author of *Conscience of a Liberal* died in a plane crash less than two weeks before the election.

ANSWER: Paul David **Wellstone**

8. This sociologist studied natives of Australia to write *The Elementary Forms of the Religious Life*. For 10 points each:

[10] Name this French thinker, who also studied four reasons for the title phenomenon in his book *Suicide*.

ANSWER: Émile **Durkheim**

[10] One of the reasons that Durkheim identified for suicide was this condition of being disconnected from any meaningful social norms.

ANSWER: **anomie**

[10] Robert Merton applied the theory of anomie to this field. Its other theorists include Jeremy Bentham, whose work in this discipline discussed the “panopticon,” and Cesare Baccaria.

ANSWER: **criminology** [prompt on **penology**]

9. He analyzed the causes and types of emotions in his 1649 work *The Passions of the Soul*. For 10 points each:

[10] Identify this French philosopher of *Meditations on First Philosophy*.

ANSWER: René **Descartes**

[10] Descartes may be best known for this three-word Latin phrase, a single undeniable truth that he used as a foundation for his theory of knowledge.

ANSWER: “**cogito ergo sum**” [prompt on “**I think, therefore I am**”]

[10] The French equivalent of “cogito ergo sum,” “Je pense, donc je suis,” first appeared in this 1637 Descartes tract, which also introduced Cartesian geometry in the appendix *La Géométrie*.

ANSWER: **Discourse on Method** [or **Discours de la méthode**; or **Discourse on the Method**]

10. Orin shoots himself at the end of this work. For 10 points each:

[10] Name this series of three dramas, “Homecoming,” “The Hunted,” and “The Haunted,” a retelling of the Orestes story involving the Mannon family.

ANSWER: **Mourning Becomes Electra**

[10] This American playwright of *The Emperor Jones*, *Desire Under the Elms*, and *The Hairy Ape* penned *Mourning Becomes Electra*.

ANSWER: Eugene Gladstone **O’Neill**

[10] This O’Neill work sees patrons of Harry Hope’s bar gradually abandon their “pipe dreams” after “Hickey” Hickman kills his wife.

ANSWER: *The **Iceman Cometh***

11. Its tallest peak, Vinson Massif, is located within the Sentinel Range of the Ellsworth Mountains, and it contains the sub-glacial Lake Vostok. For 10 points each:

[10] Name this fifth-largest continent that is a demilitarized zone allocated for scientific research.

ANSWER: **Antarctica**

[10] Along with the Weddell Sea, this body of water is one of the two major embayments of Antarctica and has a namesake ice shelf located at its head.

ANSWER: **Ross** Sea

[10] Ross Island is home to Mount Terror and this other mountain, which, like Deception Island, is an active volcano of Antarctica.

ANSWER: Mount **Erebus**

12. For a first order reaction, it is equal to the natural logarithm of two divided by the rate constant. For 10 points each:

[10] Name this time necessary for half the original concentration of reactants in a chemical reaction to be used.

ANSWER: **half-life**

[10] This method of determining the age of fossils and other once-living material relies on the fact that the half-life of a certain isotope is approximately 5,730 years.

ANSWER: radiocarbon **dating**

[10] This man used a "Curve of Knowns" to test radiocarbon dating against the known age of historical artifacts. He won the 1960 Nobel in Chemistry for his work on carbon dating.

ANSWER: Willard Frank **Libby**

13. Identify these constellations, for 10 points each.

[10] Murzim and Mulliphem are the beta and gamma stars, respectively, of this constellation, whose alpha star is Sirius.

ANSWER: **Canis Major**

[10] This constellation is named because of its resemblance to a swan. Albireo is at its head, and Deneb is at its tail.

ANSWER: **Cygnus**

[10] The Lagoon, Horseshoe, and Trifid nebulas lie in this constellation that also contains the center of the Milky Way.

ANSWER: **Sagittarius**

14. One character in this work invents a sickly friend named Bunbury to avoid his aunt Lady Bracknell's parties. For 10 points each:

[10] Algernon Montcrieff is a character in this play, in which Gwendolyn Fairfax learns that Jack Worthing actually was christened with the titular name.

ANSWER: *The* **Importance of being Earnest**

[10] *The Importance of being Earnest* is a play by this author of *Lady Windemere's Fan* and *The Picture of Dorian Gray*.

ANSWER: Oscar **Wilde**

[10] Oscar Wilde also wrote this poem, which contains the line "each man kills the thing he loves," about being locked up in the title prison on sodomy charges.

ANSWER: "The **Ballad of Reading Gaol**" (pronounced "jail")

15. Name these battles of the U.S. Civil War, for 10 points each.

[10] This July, 1863, Pennsylvania battle included Pickett's charge and is often seen as the turning point of the Civil War.

ANSWER: **Gettysburg**

[10] This 1862 Maryland battle, also known as Sharpsburg, was the single bloodiest day of the Civil War. It saw the cautious McClellan defeated by Lee despite intercepted intelligence.

ANSWER: **Antietam**

[10] George Thomas replaced Rosecrans as head of the Army of the Cumberland before this late 1863 Tennessee battle that included fights at Lookout Mountain and Missionary Ridge.

ANSWER: **Chattanooga**

16. On the lower left-hand corner is a basket with food, a hat with a blue ribbon around it, and a discarded dress. For 10 points each:

[10] Name this painting that shows a woman in white bending over in the background. In the foreground, a man in a turban and a man in a brown suit sit with a naked woman.

ANSWER: *The Luncheon on the Grass* [or *Le Dejeuner sur l'herbe*]

[10] *The Luncheon on the Grass* was painted by this creator of *Woman with Parrot*. He painted a reclining nude woman in *Olympia*.

ANSWER: Edouard Manet

[10] This sister in law of Manet is depicted in *The Balcony*. She painted children in *Hide and Seek* and *Butterfly Hunt*.

ANSWER: Berthe Morisot

17. It can be described via the equation x of t equals A times the cosine of ωt plus ϕ . For 10 points each:

[10] Identify this variety of un-damped, un-driven oscillatory motion, undergone by an ideal spring or pendulum in two dimensions.

ANSWER: simple harmonic motion [prompt on harmonic motion]

[10] In simple harmonic motion, the restoring force on an object is linearly dependent upon its displacement from the equilibrium position, which describes this law that states that F equals negative kx .

ANSWER: Hooke's law

[10] In the equation for simple harmonic motion, A is amplitude and ω is frequency, while the ϕ term is known as this constant. It specifies where the object is at time zero.

ANSWER: phase constant

18. Opponents of this policy introduced high taxes on voluntary cooperatives in order to discredit it. For 10 points each:

[10] Name this initiative of Mikhail Gorbachev which allowed the leasing of land and an increased freedom for private business as part of a "restructuring" of the Soviet economy.

ANSWER: perestroika

[10] Another reform program under Gorbachev was this initiative for "openness" in government and freedom of speech.

ANSWER: glasnost

[10] One beneficiary of glasnost was this human rights activist, who was released from his longtime house arrest. He was the father of the Soviet hydrogen bomb.

ANSWER: Andrey Dmitriyevich Sakharov

19. For 10 points each, name these similar brass instruments.

[10] This instrument has three valves and a cylindrical bore, as opposed to its close relative, the cornet, which has a conical bore instead.

ANSWER: trumpet

[10] Trumpets evolved from valveless trumpets; cornets, however, evolved from this valveless instrument, which is still used to play songs like "Taps" in military bands.

ANSWER: bugle

[10] Another instrument that evolved from the bugle is this mellower instrument, first developed in Germany, which plays mainly in the alto range.

ANSWER: flugelhorn [accept fluegelhorn]

20. During live performances of this song, the band members would leave the stage one at a time until only drummer Joe Morello was left. For 10 points each:

[10] Name this jazz standard recorded by the Dave Brubeck Quartet on *Time Out*, which is notably written in 5/4 time.

ANSWER: "**Take Five**"

[10] The opening track on *Time Out* utilizes a 9/8 time reminiscent of the karsilama rhythm of the namesake country.

ANSWER: "**Blue Rondo a la Turk**"

[10] "Blue Rondo a la Turk"'s title is a play on this composer's *Rondo alla Turca*. He also composed the *Jupiter* symphony and *Eine Kleine Nachtmusik*.

ANSWER: Wolfgang Amadeus **Mozart**

21. The "mise" of this place was a document in which French King Louis IX nullified the Provisions of Oxford. For 10 points each:

[10] Name this home city of France's largest cathedral, also the site of an 1802 treaty with England that secured a fourteen-month break in the Napoleonic Wars.

ANSWER: **Amiens**

[10] The British negotiator at the 1802 Treaty of Amiens was this former general, whose loss at Yorktown ended the American Revolutionary War.

ANSWER: Charles **Cornwallis**

[10] When the Amiens peace failed, George III called on this prime minister, the son of the Great Commoner, to form a government in 1804.

ANSWER: William **Pitt the Younger** [prompt on **Pitt**]

22. This man developed three basic laws of inheritance while studying characteristics of pea plants. For 10 points each:

[10] Name this Austrian monk, often called the father of genetics.

ANSWER: Gregor Johann **Mendel**

[10] One of Mendel's laws refers to this phenomenon, in which the presence or absence of an allele for one trait does not affect the presence or absence of an allele for a different trait.

ANSWER: law of **independent assortment** [accept equivalents for "law"]

[10] The exception to Mendel's law of independent assortment occurs in this situation, in which two genes are found on the same chromosome, and thus are more likely to be inherited together.

ANSWER: genetic **linkage** [accept word forms like **linked genes**]

23. He wrote about a Swiss mercenary in *Arms and the Man*. For 10 points each:

[10] Name this Irish playwright of *Saint Joan* and *John Bull's Other Island*.

ANSWER: George Bernard **Shaw**

[10] In this Shaw play, Henry Higgins bets Colonel Pickering that he can pass the cockney Eliza Doolittle off as a duchess.

ANSWER: **Pygmalion**

[10] In this Shaw play, Vivie is shocked to learn that her mother used to be a prostitute and has run successful brothels all across Europe.

ANSWER: **Mrs. Warren's Profession**