



HSAPQ

High School Academic Pyramid Questions

2008-2009
NSC-Format Set #1

Round 4

Related Tossups &
Bonuses

1. In the opening of this work, one character discusses a job selling bras at Famous-Barr, while another character exclaims “nowadays the world is lit by lightning!” and contrasts a meeting at Berchtesgarden with the Paradise dance hall across the street. One character in this work gets the nickname “blue roses” after a bout with pleurosis, and a unicorn’s horn is broken during a visit from Jim O’Connor, who works in a St. Louis shoe factory. For 10 points, name this play in which the crippled Laura’s mother Amanda wants her to get a gentleman caller, a play about Tom Wingfield by Tennessee Williams.

ANSWER: *The Glass Menagerie*

“Smile, Smile, Smile” was written shortly before this man was killed in action on November 4, 1918. For 10 points each:

[10] Name this author of war poems such as "Strange Meeting" and "Dulce et Decorum Est".

ANSWER: Wilfred Owen

[10] This other Wilfred Owen poem begins with the line "What passing-bells for these who die as cattle?" and includes the line ""No mockeries now for them; no prayers, nor bells."

ANSWER: "Anthem for Doomed Youth"

2. One group believes that the “epiklesis” must be performed at this event’s start. Other doctrines about this event include the belief that it leads to a certain entity being “in, with, and under” and the “doctrine of the real presence.” In 1215, the Fourth Lateran Council adopted the Catholic position on this event. Its origins are in four Biblical passages where Jesus says “this is my body” and “this is my blood.” For 10 points, name this Christian ritual, that Catholics believe involves transubstantiation, and which consists of the ritual consumption of bread and wine.

ANSWER: the Eucharist [or Holy Communion; or the Lord's Supper]

Name these Platonic dialogues, for 10 points each.

[10] This work contains the allegories of the ring of Gyges and of the cave and it argues that we should be ruled by philosopher-kings.

ANSWER: *The Republic*

[10] In this dialogue, Socrates argues that it is impossible to seek new knowledge without knowing what you are looking for. Like *Protagoras*, it deals with whether virtue can be taught.

ANSWER: Meno

3. This ruler ended Spanish encroachment in his lands with the Peace of Vervins. He kept as mistress the Marquise de Verneuil and Gabrielle d'Estrees, and his widow was exiled after the Day of the Dupes. He defeated his predecessor and the Duke de Guise in a conflict known for their shared name which began after the St. Bartholomew's Day Massacre, and he recognized the rights of Huguenots in the Edict of Nantes. For 10 points, name this man who famously declared "Paris is worth a mass" after converting from Calvinism to take the French crown.

ANSWER: **Henry IV** [accept **Henry III of Navarre**; prompt on "Henry"]

Its leaders included Hugo Sperrle and Adolf Galland. For 10 points each:

[10] Identify this portion of the Wehrmacht, the German air force led by Hermann Goring during World War II.

ANSWER: **Luftwaffe**

[10] The Luftwaffe utilized these dive bombers during World War II, which included the JU 87. They were known for the wind powered sirens placed on their landing gear.

ANSWER: **Stuka**

4. This concept is discussed along with "progress" in a work which calls for the abolishment of most forms of rent, argues for a single land tax, and was written by Henry George. Amartya Sen used "entitlements" to study this concept during famines, and Jeffrey Sachs argued for an increase in foreign aid to \$195 billion to help end this phenomenon by 2025. The minimum income required for certain living standards is the "line" associated with, for 10 points, what concept which is prevalent in third world countries where people live for less than \$2 a day?

ANSWER: **poverty**

It includes descriptions of Irma's Injection and the Oedipal complex. For 10 points each:

[10] Name this work whose titular nighttime activity is supposedly a form of "wish fulfillment."

ANSWER: **The Interpretation of Dreams** [or *Die Traumdeutung*]

[10] *The Interpretation of Dreams* is a work by this Austrian, the founder of psychoanalysis.

ANSWER: Sigmund **Freud**

5. His generals included Chalicuchima and Ruminahui, and after his victory at Tumipampas, he exacted vengeance on the Canaris. His brother Atoc defeated him at the Battle of Chillopampa, but at the Battle of Quipaipan, he defeated his other brother. Tupac was coronated after his death, and he was kidnapped at Cajamarca in 1532. The son of Huayna Capac, he defeated his brother Huascar in a civil war before he was taken prisoner by the Spanish. For 10 points, name this Inca king who was executed by Francisco Pizarro.

ANSWER: **Atahualpa**

Published in 1776, it stated that "there is something very absurd in supposing a continent to be perpetually governed by an island." For 10 points each:

[10] Name this pamphlet by Thomas Paine that argued for independence from British rule.

ANSWER: **Common Sense**

[10] The title of *Common Sense* was suggested by this physician, whose son is the namesake of an 1817 treaty together with Sir Charles Bagot.

ANSWER: Benjamin **Rush**

6. Diabetes insipidus has occasionally been confused with a “Histiocytosis” of cells named after this man. Those cells are a subclass of antigen-presenting cells also known as dendritic cells. A better known structure named after this man produces such hormones as ghrelin in its epsilon cells and somatostatin in its delta cells, while the better-known alpha and beta cells produce glucagon and insulin. For 10 points, name this German anatomist whose namesake “islets” are found in the pancreas.

ANSWER: Paul Langerhans

It is the ratio between charge and voltage, and it is generally produced by two plates allowed to accumulate that charge, with a gap in between them. For 10 points each:

[10] Identify this electromagnetic quantity.

ANSWER: capacitance

[10] This scientist is the namesake of both the SI unit for capacitance, and the charge of a mole of electrons.

ANSWER: Michael Faraday

7. He set fifteen George Stefan poems in his *Book of the Hanging Gardens*, while the Rose quartet premiered his first *Kammersymphonie*. In one work of his, a men’s chorus sings the “Sh’ma Yisroel” prayer, and another used the vocal style Sprechstimme. This composer of the *Gurrelieder* wrote a string sextet depicting a Dehmel poem, *Transfigured Night*, and well as *Pierrot Lunaire*. For 10 points, name this composer who developed both serialism and atonality, and instructed Anton Webern and Alban Berg.

ANSWER: Arnold Schoenberg

The second work in this collection depicts gnats and flies buzzing before a storm, while the third work depicts a hunt. For 10 points each:

[10] Name the first four concerti in Vivaldi's collection *The Contest Between Harmony and Invention*, which are accompanied by sonnets depicting different times of the year.

ANSWER: *The* Four Seasons [or *Il Quattro Stagioni*]

[10] The *Winter* concerto from the *Four Seasons* is in this key signature, as is Beethoven's *Appassionata* sonata. Its key signature has four flats, and its relative major is A-flat major.

ANSWER: F minor

8. The area of one of these figures can be found with Bretschneider’s formula, which reduces to Brahmagupta’s formula for special cases. In general, their area is “one half the length of the cross product of the diagonals,” and Van Aubel’s Theorem shows that the lines connecting the centers of squares constructed on one’s sides are perpendicular and equal. A relation for the side lengths of a cyclic one of these is given by Ptolemy’s theorem. Specific examples of them include kites, trapezoids, and parallelograms. For 10 points, name this figure which denotes any object with four sides.

ANSWER: quadrilateral [do not accept or prompt on any specific type of quadrilateral]

Most of these structures are helical or icosahedral. For 10 points each:

[10] Name these often-enveloped structures consisting of protomers, which are roughly the protein shell of viruses.

ANSWER: capsid

[10] This type of virus, an example of which is HIV, stores reverse transcriptase in its capsid, where it produces a complementary DNA strand from RNA.

ANSWER: retrovirus



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Category Quiz
Bonus Choices

Arts
Current Events
Geography
History
Literature
Math Calculation
Mythology
Social Science

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Category Quiz Tossups

9. The credits of *Lost In Translation* thanks a record company named for one of these "of Death". Abkhazian immigrants staff a store devoted to sale of these items in *Snow Crash*, while in *Fast Times at Ridgemont High*, Jeff Spicoli has one of them brought to Mr. Hand's class. In *Do The Right Thing*, Mookie works for a store that sells them, which is owned by Sal. Dom DeLuise provides the voice of a Hutt by this name in *Spaceballs*. For 10 points, name this food which comes in New Haven, Brooklyn, and Chicago styles and often contains pepperoni.

ANSWER: pizzas

10. This text is one of the few sources for the story of Perseus's journey to India and killing of the youth Athis. Its fifteenth and final book discusses the appearance of a comet believed to contain the spirit of Julius Caesar. Opening with a mysterious divine force shaping chaos into the cosmos, this epic was written just before its author was inspired to write the *Tristia* due to being banished to Romania by Augustus. For 10 points, name this summary of Roman mythology by Ovid, which focuses on the theme of magical transformations.

ANSWER: the Metamorphoses

11. The Portneuf River joins this river at a facility of the Minidoka Irrigation Project, and the Ice Harbor Lock and Dam is located on this river, which receives the Henrys Fork earlier in its course. This river receives the Weiser and Malheur slightly before receiving its biggest tributary, the Salmon River. A catastrophic spillover onto its plain created the Crane, Swan, and Shoshone Falls. For 10 points, name this major tributary of the Columbia River that flows out of Hells Canyon near the edge of Idaho, and whose source lies in Yellowstone National Park.

ANSWER: Snake River

12. This character appears as a mime, a puppet, and a live singer in Harrison Burtwhistles opera about "The Mask of" him. In one work, he sings "Che Faro Senza," and Angelo Poliziano wrote "La favola di" this character, who is torn to death by Maenads. The subject of an opera by Christophe Gluck that features the "Dance of the Blessed Spirits," his story is also told in an operetta that features the "Can Can" dance. For 10 points, name this character who is found "In the Underworld" in an Offenbach work, a musician from Greek myth who loved Eurydice.

ANSWER: Orpheus

13. The Bordwell cycle extends this principle to a related quantity. The quantity that this rule concerns is the sum of internal energy and the product of pressure and volume, though that quantity, governed by this law, is better known for a change in value that is equal to TdS plus Vdp . This law may be used to calculate a compound's lattice energy via the Born-Haber cycle. For 10 points, identify this prediction, which relies on the fact that a certain thermodynamic quantity is a state function, and suggests that the change in enthalpy is independent of the path from reactants to products.

ANSWER: Hess's law

14. Early in his life, he was forced to watch the execution of his accomplice Hans Hermann von Katte, and he wrote a tract on good government entitled *Anti-Machiavel*. He formed the Furstenbund to provide a check on Austria, and he instigated the Potato War to prevent Austrian annexation of Bavaria. He had the Sans Souci palace built near Berlin, and he invited Voltaire to his court and quarreled with him. For 10 points, name this enlightened despot who turned Prussia into a dominant military power in the eighteenth century.

ANSWER: Frederick II of Prussia [or Frederick the Great]



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Category Quiz
Bonuses

Arts

It was built in the 1550s to celebrate the capture of Kazan, and according to legend, its architect, Postnik Yakovlev, was blinded after its completion. For 15 points, name this Moscow cathedral noted for its colorful onion domes.

ANSWER: Saint Basil's Cathedral [or Cathedral of Saint Basil the Blessed]

Current Events

Members of this ethnic group formed Interahamwe and the FDLR, and another of its militias was accused, in 2007, of allying with rebel forces in the Democratic Republic of the Congo. For 15 points, name this group which fought a civil war with the Tutsis in 1990s Rwanda.

ANSWER: the Hutus

Geography

Lying on the Wurm and Isar rivers, this city contains the Blutenburg Castle, Nymphenburg Palace and Marienplatz Square. For 15 points, name this third largest city in Germany, the capital of Bavaria.

ANSWER: Munich

History

It was owned by Helen Culver and based on Toynebee Hall, which was established in England by Samuel Augustus Barnett. For 15 points, name this settlement house in Chicago founded by Jane Addams.

ANSWER: Hull House

Literature

This author wrote a parody of Hollywood in *The Little Sister*. For 15 points, name this detective-fiction author of *The Big Sleep* and *The Long Goodbye*, both of which feature the character Philip Marlowe.

ANSWER: Raymond Chandler

Math Calculation

27 unit cubes are painted the color garnet and assembled into one large cube. The surface of the large cube is then painted gold. How many unit cubes are painted gold on at least one side?

ANSWER: 24

Mythology

His father decapitated him while he was watching over his mother, Parvati. For 15 points, name this Hindu remover of obstacles whose head was replaced with that of an elephant.

ANSWER: Ganesh [or Ganesha; or Ganesa]

Social Science

A prisoner may file a petition seeking this writ, which orders a court to determine whether one is being imprisoned lawfully. For 15 points, name this writ from the Latin for “have the body”.

ANSWER: (writ of) **habeas corpus**



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Stretch Phase

15. He wrote about the title object “as still as a brooding dove” in a poem entitled “The Cloud,” and he wrote about a priest who loves Beatrice, Count Orsino, who hires an assassin to kill a count in *The Cenci*. One poem by this man asks the reader to weep for the title lover of Venus in “Adonais,” and another narrated by a “traveler from an antique land” involves seeing two legs of a statue that say “look on my works, ye mighty, and despair.” The author of a poem about a “blithe spirit,” for 10 points, name this poet of “Ozymandias” and “To a Skylark.”

ANSWER: Percy Bysshe Shelley (prompt on “Shelley”)

This philosopher wrote that history is the movement of Spirit toward the attainment of self-consciousness in his work *The Philosophy of History*. For 10 points each:

[10] Name this German idealist philosopher of the 19th century who also wrote *The Phenomenology of Spirit*.

ANSWER: Georg Wilhelm Friedrich Hegel

[10] Hegel’s philosophy was grounded in his belief in this system in which a thesis and antithesis combined to form a synthesis. Marx used this concept to formulate a namesake “materialism.”

ANSWER: dialectic [or dialectical]

[10] Hegel disagreed with this earlier philosopher’s view that it was possible to eliminate war. He formulated the idea of the categorical imperative, and wrote *Critique of Pure Reason*.

ANSWER: Immanuel Kant

16. Two alternatives to the most common explanation for this quantity invoke the Abbott-Farhi model or technicolor, though better accepted is a tachyon condensation model called the Higgs mechanism. Special relativity calculates it by dividing the Lorentz factor into the rest version of this, and the resistance to acceleration under the influence of a given force may be quantified by its inertial type. For 10 points, identify this physical quantity that indicates how much matter an object contains, which in a famous equation may be converted to energy.

ANSWER: mass

The main character of this work runs over Solace Layfield with a car for impersonating him. For 10 points each:

[10] Name this novel in which Hazel Motes meets mummy-worshipping Enoch Emery, starts the “Church Without Christ,” and blinds himself to show up his rival Asa Hawks.

ANSWER: Wise Blood

[10] This author of “A Good Man is Hard to Find” wrote *Wise Blood*.

ANSWER: Flannery O'Connor

[10] This other female Southern Gothic author wrote “Madame Zilensky and the King of Finland,” *The Ballad of the Sad Café*, and *The Heart is a Lonely Hunter*.

ANSWER: Carson McCullers

17. The Nazi agent Georg attempts to track down his dissident brother-in-law Schwarz in this man's novel *The Night in Lisbon*, and his other late novels include *The Black Obelisk* and *Heaven Has No Favorites*. His major work opens with a card game played upon latrines and features the vengeful beating of the cruel Himmelstoss, before both Kemmerich and Muller pass along a pair of boots. That work by this author was followed by the sequel *The Road Back*. For 10 points, name this author who described the World War I death of Paul Baumer in *All Quiet on the Western Front*.

ANSWER: Erich Maria Remarque

It begins as acetyl-CoA donates an acetyl group to oxaloacetate. For 10 points each:

[10] Identify this eponymous set of reactions, which is also known as the citric acid cycle.

ANSWER: Krebs cycle [prompt on "tricarboxylic acid cycle" or "TCA cycle"]

[10] Fats are broken down by the Krebs cycle into their constituent fatty acids and this molecule, which serves as a sort of backbone.

ANSWER: glycerol

[10] Made from PEP at the end of glycolysis, this three-carbon sugar is decarboxylated and dehydrogenated before being added to CoA immediately before the Krebs cycle begins.

ANSWER: pyruvate

18. In his book *Constitutional Government in the United States*, he argued that the president was “the representative of no constituency, but of the whole people.” During his administration, the Keating-Owen Act was passed to curb child labor, and Louis Brandeis helped this man craft his New Freedom program. He served as president of Princeton and governor of New Jersey before attaining his highest post. For 10 points, name this man who failed in his attempt to get the U.S. to join the League of Nations, and who led the country through World War I.

ANSWER: Woodrow Wilson

Wide Sargasso Sea by Jean Rhys details her early life in the Caribbean. For 10 points each:

[10] Name this literary character who often escapes an attic that is guarded by Grace Poole.

ANSWER: Bertha Mason [or Antoinette Cosway]

[10] This owner of Thornfield Manor imprisons his crazy wife Bertha in the attic. He once had a relationship with Celine Varens, but ends up marrying Jane Eyre.

ANSWER: Edward Rochester [accept either]

[10] *Shirley* and *Villette* are two lesser-known novels by this author of *Jane Eyre*.

ANSWER: Charlotte Bronte [prompt on "Bronte"]

19. He showed an angry mob taking guns from a box under a communist flag in his *In the Arsenal*, and he depicted a man in a white suit staggering under the load of a giant basket full of the title objects in *The Flower Carrier*. One of his most famous works was commissioned by Nelson Rockefeller and depicted the face of Lenin and a man controlling a giant machine with four propellers. For 10 points, name this painter of *Man at the Crossroads*, a Mexican muralist and husband of Frida Kahlo.

ANSWER: Diego **Rivera**

This region is sometimes co-named for Edgeworth. For 10 points each:

[10] Name this "belt" that extends beyond the Solar System.

ANSWER: the Edgeworth-**Kuiper** Belt

[10] The Kuiper Belt is theorized to be the source for the "short period" variant of these "dirty snowballs" that revolve around the sun.

ANSWER: **comets**

[10] Objects that originate in the Kuiper belt can sometimes migrate inside of Neptune's orbit; they are then classified as one of these objects whose examples include Chiron and Hidalgo.

ANSWER: **Centaurs**

20. This nation's first constitutional president was Francisco Ferrera, and after Miguel Davila came to power in this nation, President Taft sent troops to protect U.S. investments. Another president of this country, Carlos Flores, declared that 50 years of progress had been reversed by 1998's Hurricane Mitch. Under the regime of Roberto Cordova, this country was a haven for Contras, and under Oswaldo Lopez, this nation fought the Soccer War with neighboring El Salvador. For 10 points, name this Central American nation whose capital is Tegucigalpa.

ANSWER: Republic of **Honduras**

The Capitoline Satyr is commonly regarded as a copy of one of his works. For 10 points each:

[10] Name this ancient Greek sculptor of *Apollo Sauroctonos*, the *Aphrodite of Cnidus* as well as *Hermes with the Infant Dionysus*.

ANSWER: **Praxiteles**

[10] This other Greek sculptor created a statue of Athena for the Parthenon. whose construction this man supervised. He also created the Statue of Zeus at Olympia.

ANSWER: **Phidias** [or **Pheidias**]

[10] Another ancient Greek sculptor was Myron, who created this bronze work that depicts an Olympian just about to toss the titular object.

ANSWER: **Discobolus** [accept *The Discus Thrower*]

21. One function of this hormone is to bind to alpha-one receptors in the liver to activate the inositol-phospholipid signaling pathway. Another of its functions sees it bind to beta receptors to activate the adenylate cyclase signaling pathway, which spurs glycogenolysis in the liver. This hormone is released by a namesake gland that sits on top of the kidneys. For 10 points, name this hormone that is often injected into the hearts of cardiac arrest victims, and that spurs on the "fight or flight" mechanism when released during stress.

ANSWER: **adrenaline** [or **epinephrine**; prompt on "epi"]

The ABC Conference averted a war between the U.S. and this country, which Germany attempted to turn against the Allies with the Zimmerman Telegram. For 10 points each:

[10] Name this country which was ruled throughout the 20th century by the Institutional Revolution Party, which emerged from the chaos following the death of Porfirio Diaz.

ANSWER: **Mexico**

[10] Mexican forces led by Ignacio Zaragoza defeated a French army under at this 1862 battle, which is commemorated on Cinco de Mayo.

ANSWER: Battle of **Puebla**

[10] This man succeeded Ignacio Comonfort as president of Mexico, and lead resistance to the French occupation in the 1860s.

ANSWER: Benito Pablo **Juárez**

22. The baptism of the centurion Cornelius occurs in this book, and in chapter 12, Philip is commanded to baptize an Ethiopian eunuch. In Corinth, Gallio refuses to hear charges against one of this book's main figures, and that figure is taken into the protective custody of the Judean procurator Felix. Thought to be written by Luke, it features the conversion of a persecutor of the church on the road to Damascus. For 10 points identify this first book following the Gospels in the New Testament that describes what Peter, Stephen, Paul, and other apostles did.

ANSWER: **Acts**

Name these battles of the American Civil War for 10 points each:

[10] During this 1863 battle in Spotsylvania, Virginia, Lee brilliantly divided his already inferior army repeatedly. It also saw the death Stonewall Jackson.

ANSWER: Battle of **Chancellorsville**

[10] The Confederates led by Earl Van Dorn were crushed by the outnumbered and strongly entrenched Union army under Samuel R. Curtis in this March of 1862 battle in Arkansas.

ANSWER: Battle of **Pea Ridge** [or **Elkhorn Tavern**]

[10] This 1863 Pennsylvania battle saw Meade engage Lee at sites like Cemetery Ridge and Little Round Top, as well as the disastrous Pickett's charge.

ANSWER: Battle of **Gettysburg**