



HSAPQ

High School Academic Pyramid Questions

2008-2009
NSC-Format Set #1

Round 8

Related Tossups &
Bonuses

1. Under the leadership of Kitbuqa, this group was defeated by Baybars at Ayn Jalut, while another group of these people destroyed Alamut, the headquarters of the Assassins, and killed al-Mustasim to end the Abbasid dynasty. The Ilkhan dynasty was founded by Hulagu, one of their leaders, while another, Mongke, began their successful war against the Song dynasty. In Russia, their leader Uleg Beg founded the Golden Horde. For 10 points, name these people who ruled as the Yuan Dynasty in China under the leadership of Kublai Khan.

ANSWER: Mongols

In 1996, members of the Túpac Amaru Revolutionary Movement took hostages in the Japanese embassy of this South American country. For 10 points each:

[10] Name this country whose current president is Alan García Pérez, and whose president during most of the 1990s was Alberto Fujimori.

ANSWER: Peru

[10] María Elena Moyano was assassinated by this Peruvian guerrilla organization, whose leader, Abimael Guzmán, was captured in 1992.

ANSWER: Shining Path [or Communist Party of Peru]

2. He wrote a “musical fairy tale” for chorus and orchestra in *Der Rose Pilgerfahrt*. He left unfinished a series of variations on Paganini’s “Campanella” theme, and he wrote piano works about the characters of Florestan and Eusebius in his “Davidsbundler.” His piano collections include *Pappilons*, and this composer of *Carnaval* wrote a symphony in E-flat depicting the Cologne Cathedral, as well as another in B-flat named for a season. For 10 points, name this German composer of the *Spring* and *Rhenish* symphonies.

ANSWER: Robert Schumann

The fourteenth one inspired a similarly titled Fantasy, and Franz Doppler collaborated on orchestrating six of them. For 10 points each:

[10] Name this collection of nineteen piano works, one of which quotes “The Racoczy March,” and another of which is entitled “Héroïde-élégiaque.”

ANSWER: Hungarian Rhapsodies

[10] This composer of the *Hungarian Rhapsodies* also wrote the *Faust Symphony* and *Mephisto Waltzes*.

ANSWER: Franz Liszt [or Ferenc Liszt]

3. Terminal moraines create ribbon ones, and a set of connected ones emerging due to glacial action are called paternoster ones. The clearest ones are oligotrophic, which are devoid of plant life, while meromictic ones often have steep basins. They can form in calderas, and the oxbow ones form from cut off meanders. The most common holomictic type of them features a mixing of the epilimnion and hypolimnion. For 10 points, name these bodies of water that are surrounded by land, and feature a less consistent temperature throughout than ponds.

ANSWER: **lake**

A diet consisting mainly of polished white rice will likely lead to a deficiency of this vitamin, which is prevalent in the seed coats of cereal grains. For 10 points each:

[10] Name this vitamin that contains a thiazole and a pyrimidine group, and is needed for normal functioning of the nervous system.

ANSWER: **thiamine** [or **thiamin**; or vitamin **B1**]

[10] A deficiency of vitamin B1 results in this condition that can manifest as Wernicke-Korsakoff syndrome in alcoholics.

ANSWER: **beriberi**

4. CES functions are commonly used to represent this quantity, and because it is unitless, any monotonic transform applied to functions representing it gives the same MRS curve. The maximization of this quantity with a budget constraint is often called the consumer's problem. It is constant along an indifference curve, and those curves are concave because the marginal form of it "diminishes" with additional consumption of a good. For 10 points, identify this quantity which is a measure of happiness gained by consumption of a good.

ANSWER: **utility** [or **utility functions**]

Contractionary monetary policy adopted in 1979 led to one of these named for then Fed Chairman Paul Volcker. For 10 points each:

[10] Identify these events which are not always associated with a decrease in real GDP over two quarters or more.

ANSWER: **recession**

[10] Recessions are part of these economic fluctuations, which consist of a contraction, a trough, an expansion, and a peak.

ANSWER: **business cycles**

5. One of the eight criteria for one type of them is that they should not absorb light at wavelengths longer than 230 nanometers. That type also ensures stable complexes involving them and cationic ligands, and is named for Norman Good. MKP reduces nitrogen loss and is a commonly used namesake "agent". The value that they most influence can be calculated using the Henderson-Hasselbalch equation, which requires knowledge of their pKa. For 10 points, name these solutions which minimize pH change.

ANSWER: **buffer** solutions

Its namesake “organizing regions” consist of tandem repeats on five chromosomes. For 10 points each:
[10] Identify this organelle, one of whose principal roles is the creation of ribosomes.

ANSWER: **nucleolus**

[10] The nucleolus contains several of these organelles. Better known examples of them store fluids in plant cells.

ANSWER: **vacuoles**

6. This man established the policy of “no war, no peace” in opposition to his deputy Georgy Chicherin, but was forced to take less desirable terms after balking at the initial offer of the Treaty of Brest-Litovsk. This man originated the doctrine of permanent revolution, and he founded the original *Pravda*. In 1918, he became leader of the Red Army, and due to his opposition to Socialism in One Country, he was exiled after the death of Lenin. For 10 points, name this man assassinated on Stalin’s orders in 1940 in Mexico City.

ANSWER: Leon **Trotsky** [or Lev Davidovich **Bronstein**]

Name these German military theorists, for 10 points each:

[10] His statement, “War is the continuation of politics by other means” was the antithesis part of a Hegelian dialectic found in this man’s magnum opus, *On War*.

ANSWER: Karl von **Clausewitz**

[10] This successor of Moltke realized that Germany could not fight a war on two fronts and developed his namesake plan to quickly subjugate Belgium and France during World War I.

ANSWER: Alfred von **Schlieffen**

7. Both the creator god and the god of death are depicted as this animal in Fijian mythology. Da Aido Hwedo is represented as this animal to the Fon, and the Aztec Coatlicue and Egyptian Apep are also depicted as this animal. The Ouroboros is depicted as one of these eating its own tail, and Quetzalcoatl is a “plumed” one of these animals. Another of these creatures was thrown into Midgard at birth and will spew Thor with venom at Ragnarok, Jormungand. For 10 points, name this animal whose form was also taken by the tempter of Eve in the Garden of Eden.

ANSWER: **serpent** [or **snake**]

Persia has been a breeding ground for religions. Name some, for 10 points each.

[10] This dualistic religion and philosophy has such cool things as Towers of Silence and Fire Temples. It follows the teachings of Zarathustra, and sees Ahura Mazda and Ahriman duke it out.

ANSWER: **Zoroastrianism** [accept word forms]

[10] Persia also saw the birth of this religion, which combined Zoroastrianism and Gnosticism. It arose during the Sassanian period, and was heavily persecuted by just about everyone.

ANSWER: **Manichaeism** [accept word forms]

8. This novel’s protagonist accidentally hangs a flag upside down after getting drunk working as a security guard, and he lives for a while in a shack with Lee Ann and Remi Boncouer before spending time with the drugged-out Louisianan Bull Lee. Carlo Marx goes around partying with a character who throughout this novel has concurrent relationships with three different wives and who was based on the author’s friend Neal Cassidy. For 10 points, name this work about Dean Moriarty and Sal Paradise, a Beat novel by Jack Kerouac.

ANSWER: **On the Road**

This play follows *Agamemnon* and *The Libation Bearers* in the *Oresteia* trilogy. For 10 points each:
[10] Name this play in which the Furies become the title “kindly ones” after Athena casts the tiebreaking vote on a jury that is trying Orestes for the murder of his mother.

ANSWER: *The Eumenides*

[10] The *Oresteia* was written by this author of *Seven Against Thebes* and *Prometheus Bound*.

ANSWER: **Aeschylus**



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Category Quiz
Bonus Choices

Arts
Current Events
Geography
History
Literature
Math Calculation
Religion
Social Science

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Category Quiz Tossups

9. This man's bronze *Herm of St. Stephen* is featured at the Cathedral Treasury in Zagreb, and another of his works depicts an angel carrying a crown of thorns. One of his late works depicts a woman on her deathbed in *Beata Ludovico Albertoni*; a better known work is the baldacchino for St. Peter's Basilica. His sculpture groups include *The Rape of Prosperina* in addition to *Apollo and Daphne*. Best known for a work in the Cornaro Chapel, for 10 points, name this Italian sculptor who showed arrows of light piercing a female mystic in his *St. Theresa in Ecstasy*.

ANSWER: Giovanni Lorenzo **Bernini**

10. One character in this movie claims a lisp causes her to call her dog Tory instead of Toby. That character, Tess, is shown eating ribs in a slideshow. A car getting stuck in mud prompts two characters in this film to go to a bar and sing "Bennie and the Jets." The main character of this movie loses a planner in a taxi shared with Kevin Doyle, played by James Marsden, after attending two weddings in one night. For 10 points, name this film starring Katherine Heigl, whose character has worn the titular quantity of clothing as a frequent bridesmaid.

ANSWER: **27 Dresses**

11. One feature of this name is located near Loch Fyne in Argyll, and another has a high point at Prokletije. In addition to the Arrochar and Dinaric varieties, another of them in Washington is the Issaquah type, and the Hida and Akaishi comprise the Japanese variety of this feature. One of them contains the Tasman Glacier and Mount Cook, the Southern variety of New Zealand, while another names a notable region in Romania. For 10 points, give the common name of these mountain ranges, the best known of which contains the Matterhorn and Mont Blanc.

ANSWER: **Alps** Mountains

12. Supreme Court justice William Johnson subverted the enforcement of this law in the *Gilchrist* case. This response to the Orders in Council and the Berlin and Milan decrees was protested with a cartoon of a turtle "nicking" a man holding a barrel of flour. Strongly opposed by the Essex Junto, this law was a protest of Napoleon and Britain's policies, and was superseded by the Non-Intercourse Act and Macon's Bill Number Two. For 10 points, name this 1807 law that prohibited all exports from the United States.

ANSWER: **Embargo** Act

13. One of this author's novels contrasts David Sechard, who invents an improved printing press, with Lucien Rubempre, a poet who becomes a hack journalist. In another of this author's novels, the title character loves her cousin Charles, but instead marries the wealthy Monsieur de Bonfons. This author of *Lost Illusions* and *Eugenie Grandet* created the characters of Vautrin and Eugene de Rastignac in a massive series of over one hundred realistic novels. For 10 points, name this French author whose *The Human Comedy* includes *Pere Goriot*.

ANSWER: Honore de **Balzac**

14. The genomes of many species in this genus, such as *simulans* and *yakuba*, have been completely sequenced by Berkeley researchers. One member of this genus has the longest known sperm and is called *bifurca*. Genders of members of this genus can be distinguished by their "sex combs," and mutations include yellow, ebony, white-eyed, and dumpy. They were studied extensively to test Hugo de Vries' mutation theory by Thomas Hunt Morgan. For 10 points, name this genus of common model organism *melanogaster*, more commonly known as a fruit fly.

ANSWER: **Drosophila** [prompt on "fruit fly"]



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Category Quiz
Bonuses

Arts

One work of his for piano and orchestra is *Nights in the Garden of Spain*, and he used Andalusian influences in *El Amor Brujo*, which contains the "Ritual Fire Dance." For 15 points, name this Spanish composer of *The Three Cornered Hat*.

ANSWER: Manuel de Falla y Matheu

Current Events

It has a name that translates as "forward," and Tzipi Livni was elected as its leader in 2008. For 15 points, name this political party that is currently the largest in the Knesset.

ANSWER: Kadima

Geography

Called Tamaki-makau-rau by the Maori, this city contains the Manukau and Waitemata harbors and lies between the Waitakere and Hunua mountain ranges. For 15 points, name this city of North Island that is the largest in New Zealand.

ANSWER: Auckland

History

Fought between the Broad and Pacolet rivers, this engagement saw a feigned retreat by militia under Andrew Pickens, and a cavalry charge by William Washington. For 15 points, name this 1781 battle, a victory for Daniel Morgan over Banastre Tarleton in South Carolina.

ANSWER: Battle of Cowpens

Literature

The title of a Jean Giraudoux play claims that it is the thirty-eighth literary treatment of the story of this mythological figure. For 15 points, name this subject of Plautus play, in which the titular character returns to his wife Alcmene only to find that Zeus has slept with her.

Answer: Amphitryon

Math Calculation

A box contains 50% shirts and 50% jeans. Half of the shirts have tags, but all of the jeans do. For 15 points, if a person picks up a random tag, what is the probability that it is attached to a pair of jeans?

ANSWER: 2/3 [or 0.667; or 66.6%; or close equivalents]

Religion

This prophet's book uses the metaphor of a marriage between God and Israel in which Israel has relations with other men. For 15 points, name this minor prophet whom God forced to marry a harlot called Gomer.

ANSWER: Hosea

Social Science

Over several trials, a trained dog salivates upon hearing a tone, but receives no reward. For 15 points, name the process by which the dog slowly stops salivating in response to the tone.

ANSWER: extinction



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Stretch Phase

15. This process aids the production of symmetrical dimers from radicals in a namesake Kolbe reaction. It aids in the reduction of p-benzoquinone, and another reaction involving it results in ferrocyanide ions. One test often coupled with it involves a wooden splinter which bursts into a bright white flame, and iron is frequently avoided for constructing the apparatus in which it occurs, as reactive metals can corrode the namesake cell. For 10 points, name this method of separating compounds into ones forming at the anode and cathode by the passage of electricity.

ANSWER: electrolysis

This character is initially a Magi-Peel salesman. For 10 points each:

[10] Name this subject of four books subtitled "Run," "Is Rich," "Redux," and "At Rest."

ANSWER: Harry "Rabbit" Angstrom [accept any or all of the three]

[10] The "Rabbit" books were written by this author of *The Witches of Eastwick*.

ANSWER: John Hoyer Updike

[10] This collection by Updike includes "Flight" and "Friends from Philadelphia." The title story centers on a teenager named David Kern, who shoots some birds in a barn.

ANSWER: Pigeon Feathers

16. The Hyksos' capital city of Avaris was a former center of devotion to this god, who was elevated under Hyksos rule due to similarities with Baal. Another sacred city was Ombos, and though this god was originally depicted as a donkey, he slowly morphed into a dog-like creature. This god may be best known for scattering thirteen pieces of his brother's body after murdering him. For 10 points, name this husband of Nephthys and brother of Osiris, the Egyptian god of evil.

ANSWER: Seth

A petition from over 1,000 economists did not prevent Herbert Hoover from signing this piece of legislation that is named for a Utah senator and an Oregon representative. For 10 points each:

[10] Name 1930 act that raised United States tariffs to record levels in an unsuccessful effort to stave off the effects of the Great Depression.

ANSWER: Hawley-Smoot Tariff Act [or Smoot-Hawley Tariff Act]

[10] Hawley-Smoot helped lead to this 1944 agreement signed at the namesake New Hampshire resort. It resulted in the General Agreement on Tariffs and Trade.

ANSWER: Bretton Woods [or United Nations Monetary and Financial Conference]

[10] Prime Minister R.B. Bennett lost to Mackenzie King shortly after this nation adopted the Imperial Preference in response to Hawley-Smoot.

ANSWER: Canada

17. This poem uses the comparison of a “magic lantern [that] threw the nerves in patterns on the screen,” and the speaker mentions “the Eternal footman.” Described as “rub[bing] its back upon the window-panes” is a “yellow fog,” and the speaker describes himself as “Lazarus, come from the dead” before lamenting “that is not what I meant at all.” Beginning with “let us go then, you and I, this poem features “women [who] come and go / talking of Michelangelo.” For 10 points, name this supposedly romantic dramatic monologue by T.S. Eliot.

ANSWER: “The Love Song of J. Alfred Prufrock”

Identify these genetic phenomena and related terms, for 10 points each.

[10] A pair of these chromosomal copies are joined by their centromeres during the S phase of the cell cycle.

ANSWER: sister chromatid

[10] This exchange of chromosome segments is the main mechanism for genetic diversity, occurring between sister chromatids at the chiasmata.

ANSWER: crossing-over

[10] The cause of many trisomies, this occurs when a pair of sister chromatids fails to separate during meiosis.

ANSWER: no disjunction

18. The *wiratham* movement was a pro-Japanese effort in this country during World War II. For a time in the eighteenth century, this country was ruled by an insane king named Taksin from the city of Thon Buri. In the twentieth century, the Promoters Revolution lessened the power of its royal Chakri Dynasty, and, in total, eighteen military coups have occurred here since the 1940s. For 10 points, name this country currently led by Rama IX, the only Southeast Asian state never colonized by Europeans, which was once known as Siam.

ANSWER: Thailand [prompt on “Siam” before it is read]

He shoots himself with Albert’s pistols after failing to overcome his pining for Lotte. For 10 points each:

[10] Name this romantic youth, whose “sorrows” are described in a popular 1774 novel.

ANSWER: Young Werther

[10] This prolific Sturm und Drang author of *The Elective Affinities* wrote *The Sorrows of Young Werther*.

ANSWER: Johann Wolfgang von Goethe

[10] In Goethe’s version of this character’s story, he makes a deal with Mephistopheles for the love of Margerete or Gretchen.

ANSWER: Doctor Faust

19. The process by which they enter tissues is called diapedesis. Their progenitor cells include band cells and myelocytes. Less than one percent of them release the anti-clotting protein heparin, while the most common form of them are sometimes known as PMNs and secrete lysozymes. In addition to basophils and neutrophils, they also include eosinophils, monocytes, and lymphocytes. For 10 points, name this only class of blood cells to contain nuclei, a major part of the immune system.

ANSWER: white blood cells [or leukocytes]

One design by this man was inspired by the Maison Carrée in Nîmes, and his residence near Charlottesville featured a pedimented portico fronting a saucer dome. For 10 points each:

[10] Name this man who designed Monticello.

ANSWER: Thomas **Jefferson**

[10] Jefferson's design of Monticello was inspired by the Villa Rotonda, which was created by this 16th century Italian architect and author of *The Four Books of Architecture*.

ANSWER: Andrea **Palladio** [or **Andrea di Pietro** della Gondola]

[10] This English architect drew on some of Palladio's principles in his works, including the rebuilding of St. Paul's Cathedral after the Great Fire of London.

ANSWER: Christopher **Wren**

20. In one painting by this man, the central figure in red is tied by rope to a man in green while another painting depicts a man in blue surrounded by ten nude figures. The artist of *Dormition of the Virgin*, in addition to *The Disrobing of Christ* and *Opening of the Fifth Seal*, he created a work for Andres Nunez that depicts Saints Stephen and Augustine. For 10 points, name this Mannerist painter of *The Burial of the Count of Orgaz* and *View of Toledo*.

ANSWER: **El Greco** [or Domenicos **Theotokopoulos**]

An example of the structural kind is the contrast between isobutane and n-butane. For 10 points each:

[10] Identify these compounds with the same molecular formula but various structural differences.

ANSWER: **isomer**

[10] In organic chemistry, an example of this is the equilibrium between enols and ketones. The main difference between those molecules is the location of the double bond.

ANSWER: **tautomer**

[10] In contrast to diastereomers, these isomers are reflections of each other through a plane.

ANSWER: **enantiomer**

21. One of this author's short stories tells of a woman named Phoenix Jackson who takes the title route despite being threatened by a hunter with a gun. That story is collected in this author's *A Curtain of Green* and is titled "A Worn Path." This author wrote of Jamie Lockhart kidnapping and falling in love with Rosamund in *The Robber Bridegroom* and wrote about Laura McKelva returning to New Orleans to take care of the Judge in *The Optimist's Daughter*. For 10 points, name this female author of *Delta Wedding* and "Why I Live at the P.O."

ANSWER: Eudora **Welty**

Identify the following about fish and fishers in mythology, for 10 points each.

[10] The name "Fisher King," given to such figures as Bron and Alain, refers to the man who guarded this object from Arthurian myth. Sir Galahad was the only one pure enough to recover it.

ANSWER: the **Holy Grail** [or **Graal**; or **Sangreal**]

[10] This son of Poseidon and Amphitrite has the lower body of a fish, and controls the waves by blowing a conch shell.

ANSWER: **Triton**

[10] In Celtic myth, Gwion Bach once turned himself into a fish while escaping from Ceridwen. Later, Gwion would be reborn as this "radiant-browed" bard and poet.

ANSWER: **Taliesin** [or **Merddin**]

22. This man created the Empty Chair Crisis in the EC, and he had earlier been the target of an assassination attempt by Jean Bastien-Thiery of the OAS. He presided over the beginning of the “Thirty Glorious Years,” and his government declared an arms embargo on Israel before the Six Days War. He delivered both the Appeal of June 18 and Long Live Free Quebec speeches. Succeeded by Georges Pompidou, for 10 points, name this first president of the Fifth Republic and leader of the Free French.
ANSWER: Charles **de Gaulle**

Its first president was Muhammad Naguib and it formed the United Arab Republic with Syria. For 10 points each:

[10] Name this African country whose president Nasser nationalized the Suez Canal in 1956.

ANSWER: Arab Republic of **Egypt**

[10] This successor to Nasser was assassinated by Khalid Islambouli after his policy of peace with Israel was poorly received.

ANSWER: Muhammad Anwar El **Sadat**

[10] This current Egyptian president led Egypt in its return to the Arab League in 1989.

ANSWER: Muhammad Hosni **Mubarak**