



# HSAPQ

High School Academic Pyramid Questions

2008-2009  
NSC-Format Set #1

Round 13

Related Tossups &  
Bonuses

1. In the left background of this painting, a steeple rises above a cloud of smoke, and a man holding a letter rushes towards the foreground. On the right, two men with clasped hands look at the central figure while one man holds his left arm, one stands over him with a giant flag, and one stuffs a white cloth into his chest. A crouching Native American stares at the title red-uniformed man, and guns litter the ground of the Plains of Abraham. For 10 points, name this painting by Benjamin West which shows the death of a British general during the French and Indian War.

ANSWER: *The **Death of General Wolfe***

Although he produced some amazing soap commercials, he is certainly better known for films such as *Through a Glass Darkly* and *Wild Strawberries*. For 10 points each:

[10] Identify this Swedish director of *The Seventh Seal*.

ANSWER: Ingmar **Bergman**

[10] Bergman made a 1975 film version of this Mozart opera. In Bergman's version, Sarastro is Pamina's father. Other characters include Papageno and The Queen of the Night.

ANSWER: *The **Magic Flute*** [or **Trollflojten**; or *Die **Zauberflote***]

2. In Alan Baddeley's model of this concept, a "central executive" supervises three "slave systems." Atkinson and Shiffrin proposed a three-stage model of this concept, while a study asking subjects about the assassination of John F. Kennedy demonstrated that emotions helped create the flashbulb type. According to Elizabeth Loftus, almost all repressed ones are actually false ones. They result from the encoding, storage, and recall of information. For 10 points, name these mental properties whose types include sensory, long-term, and short-term.

ANSWER: **memories** [or **memory**; or clear-knowledge equivalents; or **short-term memory** before Atkinson]

She wrote of the "tyranny of the shoulds" in examining how neurotics can oscillate between goals of perfection and self-hate. For 10 points each:

[10] Name this neo-Freudian psychologist who pioneered feminine psychology and wrote *Neurosis and Human Growth*.

ANSWER: Karen **Horney**

[10] This two-word concept was originated by Karen Horney to parallel a Freudian concept, explaining why men feel the need to dominate women.

ANSWER: **womb envy**

3. This man attended the Conference of Altenburg after succeeding Johann Philipp Stadion, and he traveled to South Africa after being forced to resign. He headed up a regency council when Holy Roman Emperor Francis II died and left Ferdinand as king of his country. He held his most power when signing the Treaty of Paris in 1814 and bringing Alexander I, Castlereagh and Talleyrand together to create a new European balance after the exile of Napoleon. For 10 points, name this Austrian statesman who chaired the Congress of Vienna.

ANSWER: Prince Klemens Wenzel von Metternich

He was known as Brother Number One. For 10 points each:

[10] Name this man who served as Prime Minister of the Democratic Republic of Kampuchea from 1976 to 1979.

ANSWER: Pol Pot [or Saloth Sar]

[10] Pol Pot was the leader of the Khmer Rouge, which overthrew Lon Nol and the government of this Asian country in 1975.

ANSWER: Cambodia

4. He's not Hector Berlioz, but he falls in love with an actress after seeing her performance in *Romeo and Juliet*. Revealing himself only as "Prince Charming", he rebuffs her after a terrible performance, leading to her suicide. James Vane learns the truth while investigating that suicide, but is shot before he can accuse this man. He also blackmails Alan Campbell into covering up the murder of Basil Hallward, before committing suicide by stabbing a portrait of himself. For 10 points, name this man who stays young as his picture ages in an Oscar Wilde novel.

ANSWER: Dorian Gray (accept either)

In this work, Pavel Rusanov is a Communist bureaucrat in the title place, which is staffed by the nurse Zoya and the doctors Vera Gangart and Lyudmila Dontsova. For 10 points each:

[10] Name this work, in which Oleg Kostoglotov is taken from his exile in the Asian town Ush-Terek and placed in a hospital in an unnamed town.

ANSWER: Cancer Ward [or Rakovy korpus]

[10] This the author of *Cancer Ward* wrote a non-fiction chronicle of the secret policeman Terekhov and the political prisoner Georgy Tenno in *The Gulag Archipelago*.

ANSWER: Alexander Solzenitsyn

5. One person of this surname won an election with the slogan "Garibi Hatao" or "Abolish Poverty," and formed a splinter wing of her political party known by her first initial. That person declared "The Emergency" and imprisoned opponents of the Congress Party before being assassinated by Sikh bodyguards in 1984. Another person of this surname was killed by Tamil Tigers in 1991 while attempting to win election as prime minister. For 10 points, Indira and Rajiv, the descendants of Jawaharlal Nehru, shared what name with Mahatma?

ANSWER: Gandhi

It is home to the ruins of Tiahuanaco and the silver mines at Potosí. For 10 points each:

[10] Name this South American country that fought the Chaco War with Paraguay in the 1930s.

ANSWER: **Bolivia**

[10] Bolivia, despite being allied with Peru, lost the Atacama Desert to Chile in this war that lasted from 1879 to 1884, and ended with the Treaty of Ancón.

ANSWER: War of the **Pacific**

6. One variant of pre-eclampsia, the HELLP syndrome, is characterized by a reduced number of these entities. A significant role in angiogenesis is played by a growth factor derived from them, and these entities function in signaling cytokines and often correspond with the receptor GP IIb or IIba. Their best known function is mediated by the hormone thrombopoietin, and these bodies often contain von Willebrand factors. Fibrin is absent during hemophilia, which results from the improper function of, for 10 points, what cytoplasmic bodies involved in blood clotting?

ANSWER: **platelets** [or **thrombocytes**]

The principal ores of this element include ulexite, colemanite, and kernite. For 10 points each:

[10] Name this element whose acid reacts with silica to create the glass known as Pyrex.

ANSWER: **boron**

[10] The molecule boron trifluoride is a violator of this rule, which says atoms try to attain a filled outer shell of eight electrons.

ANSWER: **octet** rule

7. He once disagreed with Omphale's husband, the mountain god Tmolus, about the results of a contest between the god to whom he was devoted, Pan, and Apollo. He was adopted by Gordias and Cybele, and later became king of Phrygia himself, or at least the city of Pessinus. Once given the ears of an ass, this figure attended to a drunk satyr, Silenus, and bathed in the river Pactolus. For 10 points, identify this king who has a certain power of transfiguration.

ANSWER: **Midas**

Unlike his brothers, this man was the ancestor of two tribes of Israel, Ephraim and Manasseh. For 10 points each:

[10] Name this dream-interpreting Biblical son of Jacob, who was sold into Egyptian slavery by his brothers, and possessed a fancy coat.

ANSWER: **Joseph**

[10] Joseph was jailed after being falsely accused of seducing the wife of this chief to the Pharaoh.

ANSWER: **Potiphar**

8. These structures have amortized insert cost of "big O of 1" despite having to be periodically resized. Due to their constant lookup time, they are often used instead of linked lists to implement data structures such as hash tables and queues. In C they can be dynamically allocated with malloc, and they function by automatically implementing pointer arithmetic. The multi-dimensional types are useful for storing matrices, and they are generally accessed with square brackets. For 10 points, name these data structures that store multiple elements by index.

ANSWER: **arrays**

They generally are covered by myelin. For 10 points each:

[10] Identify this part of a neuron that carries impulses away, and is connected to the soma by a namesake hillock.

ANSWER: axon

[10] The membrane of the axon includes channels for this ion to flow into the cell. Increasing the voltage to more than around negative 55 milli-volts typically causes this ion to flow in uncontrollably.

ANSWER: sodium [or Na+ ion]



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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. In this novel, a librarian asserts it is her duty to preserve books in an argument over getting more people to read at the Jolly Seventeen club. The protagonist of this work takes her son Hugh to Washington state, and attempts to produce *Androcles and the Lion*, but members of the Thanatopsis club instead choose *The Girl from Kankakee*. The protagonist of this work scandalized her husband Will by redecorating his Victorian House. Centering on Carol Kennicott's attempts to bring culture to Gopher Prairie, for 10 points, name this novel by Sinclair Lewis.

ANSWER: Main Street

10. The fictional character Chuck Noland worked for this company, which names the arena where Tyreke Evans plays home games. This primary sponsor of Denny Hamlin's #11 car also names the facility where Rudy Gay plays home games. Ken Jennings incorrectly answered this company instead of H&R Block during a notable Final Jeopardy. In 2004, Kinko's was bought by this company that sponsors the Orange Bowl. For 10 points, name this Memphis-based shipping company that is also the namesake of the stadium where Jason Campbell and the Washington Redskins play home games.

ANSWER: FedEx [or Federal Express]

11. Substituting two of this molecule's hydrogen atoms with –OH groups can lead to such compounds as the antiseptic catechol, and the antioxidant hydroquinone. Substitution with one –OH group and one –COOH group leads to salicylic acid, while substituting a hydrogen with a methyl group results in toluene. This simplest aromatic hydrocarbon has formula  $C_6H_6$ . For 10 points, name this organic compound whose structure was famously discovered when Frederick Kekule dreamt of a snake eating its own tail.

ANSWER: benzene

12. In the north of this country, the Torne River forms part of its eastern border, and the city of Umea is the largest. With its highest point at Kebnekaise, this nation controls the islands of Oland and Gotland, while its largest bodies of water include lakes Vattern and Vanern. Home to large cities including Uppsala, Malmo and Gothenburg, this country is bordered on the south by the Oresund strait and the Kattegat, and to its east lies the Gulf of Bothnia. For 10 points, name this Scandinavian country with capital at Stockholm.

ANSWER: Kingdom of Sweden

13. This man's first film role came as Herbert Pocket in *Great Expectations*, and Peter Ustinov claimed he was "the outstanding poet of anonymity." In a 1949 film, this man plays a suffragette who is killed when the protagonist shoots an arrow through her hot air balloon that she is flying pro-vote messages from. In addition to playing eight heirs to a fortune in *Kind Hearts and Coronets*, this man has played a character named Yevgraf, whose line, "Ah, then, it's a gift," concludes the film *Dr. Zhivago*. For 10 points, name this British actor who played Colonel Nicholson in *Bridge on the River Kwai*.

ANSWER: Alec Guinness

14. He gained political power with the marriage to his fourth wife, Caecilia Metella, and he was replaced in the Asian command by Lucius Valerius Flaccus. He instituted the Lex Cornelia Majestatis, a treason law, and his victory at the Colline Gate solidified his power. During the invasion of Cimbri, he was transferred to the service of Quintus Lutatius Catulus, and in 88 BCE, he was placed in command in the war against Mithradates. For 10 points name this dictator of Rome and rival of Gaius Marius who assumed the name Felix.

ANSWER: Lucius Cornelius Sulla Felix [accept Felix before mentioned]



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Category Quiz  
Bonuses

### Arts

He got his start performing at the Storeyville bordello in New Orleans, and after moving to California he formed his Red Hot Peppers. The composer of "King Porter Stomp" and "Shoe Shiner's Drag," for 15 points name this pianist who claimed he invented jazz.

ANSWER: Jelly Roll Morton

### Current Events

A recent power-sharing agreement negotiated by Thabo Mbeki gave this man's party, the Movement for Democratic Change, power in areas previously held by Robert Mugabe's Zanu-PF. For 15 points, identify this recently-declared Prime Minister of Zimbabwe.

ANSWER: Morgan Tsvangirai

### Geography

Home to the Stephen C. Foster State Park, it has a name meaning "trembling earth." For 15 points, name this large swamp that is drained by the St. Marys and Suwanee rivers, and is located in southeastern Georgia.

ANSWER: Okefenokee Swamp

### History

This state occupied present-day southern Ghana in the 18th and 19th centuries. Active in the 18th century slave trade, its capital was established in Kumasi. For 15 points, name this empire that was founded by Osei Tutu, who took the throne of the Golden Stool.

ANSWER: Ashanti [or Asante; or Asanteman]

### Literature

This poet wrote "I doubt not God is good, well-meaning, kind" in his "Yet Do I Marvel" from the collection *Color*, which he followed up with *Copper Sun* and *The Ballad of the Brown Girl*. For 15 points, name this poet of the Harlem Renaissance.

ANSWER: Countee Cullen

### Math Calculation

In the following question, your answer should be an ordered pair. Suppose  $f(x) = Q + R \ln x$  where  $Q$  and  $R$  are real constants. For 15 points, if  $f(1) = 5$  and  $f(e) = 4$ , what is the ordered pair,  $(Q, R)$ ?

ANSWER: (5, -1)

**Religion**

This man's statue is always accompanied by a lion, and he formulated "five great vows," including *satya* and *asteya*. For 15 points, identify this twenty-fourth and final Tirthankara, a man who is considered the founder of Jainism.

ANSWER: **Mahavira** [or **Vardhamana**]

**Social Science**

This concept goes hand-in-hand with the concept of "pecuniary struggle," whereby people attempt to match the wealth of others. For 15 points, name this concept presented in Thorstein Veblen's *Theory of the Leisure Class*, the acquisition of luxury goods for the express purpose of displaying them.

ANSWER: **conspicuous consumption**



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Stretch Phase

15. One character in this work organizes the local baseball club and plays first base with constant thrill. Another character keeps small balls of paper in his pockets. In addition to Joe Welling and Dr. Reefy, a priest in this work sees Kate praying naked through a hole in his stained glass window. Wing Biddlebaum and Jesse Bentley are other characters in this work, which begins comparing people to misshapen apples in "The Book of the Grotesque." For 10 points, name this work about George Willard's eventual escape from the title town, written by Sherwood Anderson.

ANSWER: Winesburg, Ohio

One Senator from this state gave out the "Golden Fleece Awards" and made a speech demanding ratification of an anti-genocide treaty every day for nineteen years. For 10 points each:

[10] Name this state represented in the Senate by William Proxmire, as well as Joseph McCarthy.

ANSWER: Wisconsin

[10] This Wisconsin Senator opposed Philetus Sawyer, promoted the "Wisconsin Idea" of university involvement in government, and garnered five million votes for President in 1924.

ANSWER: Robert Marion La Follette

[10] La Follette was the candidate of this third party, which promised expropriation of natural resources and railroads but did not prevent Calvin Coolidge's re-election.

ANSWER: Progressive Party

16. His inspiration from Cherubini can be found in his recently rediscovered *Messe solennelle*, which was reused in his *Te Deum*. This man's *Requiem* is scored for an orchestra with four brass bands at different ends of the stage. One of his works for viola and orchestra is based on a Byron poem and is entitled *Harold in Italy*. Another of his works uses an *idée fixe* to represent a love interest, and includes the section "March to the Scaffold." For 10 points, name this French composer of *Symphonie Fantastique*.

ANSWER: Hector Berlioz

This short story discusses mystics who dream that God is a circular book with a continuous spine. For 10 points each:

[10] Name this short story about a location consisting of an infinite number of hexagonal chambers, which contain books made up of random variations of characters.

ANSWER: "The Library of Babel"

[10] This blind Argentine author of "Tlon, Uqbar, Orbis Tertius" and "The Garden of Forking Paths" wrote "The Library of Babel."

ANSWER: Jorge Luis Borges

[10] Borges wrote a book named for the "dream" type of these animals. Another of these animals names a William Blake poem where it is "burning bright / in the forests of the night."

ANSWER: tiger

17. This action was ratified by Congress only due to the Willey Amendment. The Declaration of the People, which proclaimed this, announced the formation of the "Restored Government." John Carlile's convention at Clarksburg had resolved to perform this action, which involved fifty counties and was orchestrated by those who left the 1861 Secession Convention in protest. Supported by the small farmers and abolitionists who were antagonistic towards the Richmond government, for 10 points, name this 1863 event that broke a former slave state in two.

ANSWER: the **formation of West Virginia** [or the **secession of West Virginia** from Virginia; accept anything reasonable that involves West Virginia either leaving Virginia or coming into existence as a state]

This man collaborated with Vitaly Halberstadt on a book about chess strategy called *Opposition and Sister Squares are Reconciled*. For 10 points each:

[10] Name this artist, whose works include a "ready-made" urinal entitled *Fountain*, the abstract *Nude Descending a Staircase*, and a defaced Mona Lisa called *L.H.O.O.Q.*

ANSWER: Marcel **Duchamp**

[10] Marcel Duchamp was a member of this group, whose name was randomly selected by fellow member Tristan Tzara.

ANSWER: **Dadaism**

[10] A confusing book called *The Green Box* accompanies this Duchamp creation, which shows several wheels and machines around abstract representations of nine men pursuing a woman.

ANSWER: *The **Large Glass*** [or *The **Bride Stripped Bare by her Bachelors, Even***; or *La **Mariée mise à nu par ses célibataires, même***]

18. This man's short story "A King Listens" is found in his collection *Under the Jaguar Sun*. One novel by this man centers on a group of mute travelers telling stories with Tarot cards, and another is titled after the hiding place of Pin. In addition to *Castle of Crossed Destinies* and *Path to the Nest of Spiders*, this man wrote a "heraldic trilogy" that begins with *The Cloven Viscount*, and a second-person novel which stars The Reader. For 10 points, identify this Italian author of *Cosmicomics*, *Invisible Cities*, and *If on a winter's night a traveler*.

ANSWER: Italo **Calvino**

One formative event of this period was Pelagius's creation of the Kingdom of Asturias, which led to the battle of Covadonga. For 10 points each:

[10] Name this 800 year period of Spanish history in which the Iberian Peninsula was reclaimed from Muslim control.

ANSWER: **Reconquista** [accept Christian **Reconquest**]

[10] The Reconquista was ended after the marriage of Ferdinand of Aragon and Isabella of Castile, which enabled them to team up to take this final Nasrid Islamic kingdom in 1492. ANSWER: Emirate of **Granada**

[10] Granada was founded by the Almohad dynasty, which was defeated at this 1212 battle in which Castile, Navarre, Aragon, and Portugal weakened Almohad control in the Maghreb.

ANSWER: Battle of Las **Navas de Tolosa**

19. William Adams, known as the “pilot of Miura”, served as advisor to this man, who first saw battle against Suzuki Shigeteru. Captured en route to Sumpu, this man was held hostage in the Manshoji Temple for three years after which he was traded to Imagawa Sessai. He was victorious at the battles of Komaki and Nagakute, as well as at Temmokuzan, Anegawa, and Nagashino with his mentor Oda Nobunaga. For 10 points, name this victor of the Battle of Sekigahara over supporters of Hideyoshi, the unifier of Japan and namesake of a Shogunate.

ANSWER: Tokugawa Ieyasu [or Matsudaira Jirosaburo Motonobu; or Matsudaira Kurandonosuke Motoyasu; or Matsudaira Takechiyo]

Name these French authors, for 10 points each.

[10] This author of the play *Hernani* is best known for novels such as *Les Miserables* and *The Hunchback of Notre Dame*.

ANSWER: Victor-Marie Hugo

[10] This man included *Within a Budding Grove* and *The Guermentes Way* as volumes in his seven-part series *Remembrance of Things Past*.

ANSWER: Valentin Louis Georges Eugène Marcel Proust

[10] He invented the “Locked Room” genre in *Mystery of the Yellow Room*, and he also wrote the novel *The Phantom of the Opera*.

ANSWER: Gaston Leroux

20. A quantity represented alternately by nu and this letter is found in Sutherland’s formula. Another quantity represented by this letter is the quotient of the magnetic flux density and the magnetic field; with a certain subscript, it multiplies I in the most common version of Ampere’s Law. In addition to viscosity and magnetic permeability, this letter also represents the coefficient of friction. For 10 points, name this Greek letter that also represents the prefix “micro-.”

ANSWER: μ [read as mu]

Each one of these consists of a renal corpuscle and a renal tubule. For 10 points each:

[10] Name these functional units of the kidneys.

ANSWER: nephrons

[10] The renal corpuscle consists of this cup-shaped structure that surrounds the glomerulus and conducts filtrate into the renal tubule.

ANSWER: Bowman's capsule

[10] This portion of the renal tubule dips into the medulla, and consists of the descending limb, thin ascending limb, and thick ascending limb.

ANSWER: loop of Henle

21. One god associated with these items had his foot eaten by Cipactli and was known as the “smoking obsidian” type. In addition to Tezcatlipoca, another goddess associated with these objects was tricked into coming out of a cave after some jewels and one of these were tied to a tree, and is the Shinto sun goddess Amaterasu. For 10 points, name this type of surface, a watery one of which prompted Narcissus to fall in love with himself.

ANSWER: mirrors [accept equivalents; prompt on "reflections"]

It is thought to be the source of Saturn's E Ring. For 10 points each:

[10] Name this small moon of Saturn, which has the highest albedo of any moon in the solar system.

ANSWER: **Enceladus**

[10] This largest moon of Neptune is also the largest to have a retrograde orbit.

ANSWER: **Triton**

[10] Enceladus and Triton are two of roughly seven satellites in the solar system to have this feature, a layer of gases that surrounds the moon's solid mass.

ANSWER: **atmosphere**

22. One type of object that experiences this effect follows the Taylor-Proudman theorem, which defines lines parallel to a certain axis of constant velocity, which are called Taylor columns. Rossby waves have a frequency named for and due to this effect, which emerges because of a rotating reference frame.

Ekman transport and Hadley cells are influenced by, for 10 points, this phenomenon in which an object traveling a straight line in a rotating reference frame appears to follow a curved path.

ANSWER: **Coriolis** effect [or **Coriolis** force]

This author of *On Truth and Lies in a Nonmoral Sense* wrote a book that states men must upturn conventional values in order to live creatively. For 10 points each:

[10] Name this German philosopher, the author of *Beyond Good and Evil*.

ANSWER: Friedrich **Nietzsche**

[10] In this work by Nietzsche, the title figure descends from a mountain cave and urges people to overcome their humanity and become an Übermensch.

ANSWER: **Thus Spoke Zarathustra** [or **Also sprach Zarathustra**; or **Thus Spake Zarathustra**]

[10] In this other work, Nietzsche claims that the titular branch of drama arose out of the tension between the Apollonian and the Dionysian elements.

ANSWER: *The **Birth of Tragedy** from the Spirit of Music* [or **Die Geburt der Tragödie** aus dem Geiste der Musik]