



HSAPQ

High School Academic Pyramid Questions

2008-2009
NSC-Format Set #1

Round 9

Related Tossups &
Bonuses

1. This president presided over Operation Blue Bat in which 15,000 American soldiers were deployed to Lebanon, and his willingness to use armed force to fight communism in the Middle East is known as his doctrine. He issued Executive Order 10730 which put the Arkansas National Guard under Federal control to force integration of the Little Rock Nine, and under his presidency, *Brown v. Board of Education* was decided. For 10 points, name this Supreme Allied Commander during World War II who led the United States from 1953 to 1961.

ANSWER: Dwight David "Ike" Eisenhower

Taking place in the Tigray region, this engagement was a defeat for Oreste Baratieri, and resulted in a retreat to Mount Belah. For 10 points each:

[10] Name this 1896 battle that was a victory for Taytu Betul and Menelik II over the Italians.

ANSWER: Battle of Adowa [or Battle of Adwa; or Battle of Adua]

[10] Menelik II led this nation at the Battle of Adowa; a later ruler of it was Haile Selassie I.

ANSWER: Ethiopia [or Abyssinia]

2. One variety of it is targeted by ricin and erythromycin, and is coded for by the most conserved genes in the genome. Another type of it has a molecular shape with regions like the acceptor stem and D-arm. One type of transposon uses it as an intermediate in the process of jumping, and in general, its messenger type is created in transcription. Usually single-stranded, for 10 points, identify this major genetic polymer, more unstable than DNA because of a self-cleaving additional hydroxyl group.

ANSWER: RNA [or ribonucleic acid; do not accept "deoxyribonucleic acids" or "DNA"]

The kinetic type measures the rate that momentum is transferred through a fluid, while the dynamic type measures the stress on a portion of a fluid. For 10 points each:

[10] Name this property, for which molasses has a high value, the resistance of a fluid to flow.

ANSWER: viscosity

[10] This dimensionless number is inversely proportional to viscosity. Values of less than 500 for it generally corresponds to laminar flow.

ANSWER: Reynolds number

3. This figure initiated the Oscophoria, the feast of boughs, and an oracle told this figure's father not to "loose the wine-skin foot" until he returned to his own city, but he slept with Pittheus's daughter anyway. His companion Soloon drowned himself for love of Antiope, whom this figure had captured while fighting the Amazons. He killed Cercyon, Procrustes, and Sinnis, robbers on the road from Thebes to Athens, and later he abandoned Ariadne on Naxos. For 10 points, name this Greek hero, a son of Aegeus who went to Crete to slay the Minotaur.

ANSWER: Theseus

Much of this work deals with where we get our idea of cause and effect, which the author eventually concludes is "habit." For 10 points each:

[10] Name this work that was designed as a simplification of the author's *A Treatise of Human Nature*, and which notably argues that ideas originate from more vivid "perceptions."

ANSWER: An **Enquiry Concerning Human Understanding**

[10] The *Enquiry* was written by this Scottish empiricist philosopher. Its distinction between "relations of ideas" and "matters of fact" is known as his namesake fork.

ANSWER: David **Hume**

4. At this battle, the Earl of Uxbridge lead a heavy cavalry charge and routed heavy cuirassiers guarding the left flank of d'Erlon. It immediately followed an encounter involving Marshall Grouchy at Wavre, and much of the fighting at this battle occurred at Plancenoit. The first battle of its namesake campaign occurred at Quatre Bras, and it was preceded by the Battle of Ligny, which was a loss for Gebhard von Blucher. For 10 points, name this 1815 victory for the Duke of Wellington, which resulted in Napoleon's final exile.

ANSWER: Battle of **Waterloo**

This man's marriage to Clotilde prompted his conversion to Christianity. For 10 points each:

[10] Name this son of Childeric I who founded the Merovingian monarchy, and united Gaul as the Frankish king from 481 to 511.

ANSWER: **Clovis I** [prompt on "Clovis"]

[10] The Merovingian dynasty ended when Childeric III was deposed in 751 by this son of Charles Martel and father of Charlemagne.

ANSWER: **Pepin the Short** [or **Pepin III**; or **Pepin the Younger**; prompt on "Pepin"]

5. This character dies while visiting a convent, the result of a wound caused by having a heavy item dropped on his head. This character is a fictionalized version of an author who wrote *The Pedant Imitated*, *Other Worlds*, and *A Voyage to the Moon*. This character prohibits Montfleury from taking the stage, and ghostwrites letters for Christian de Neuvillette, who marries this man's love Roxanne. For 10 points, name this title character of an Edmond Rostand play, a large-nosed romantic of seventeenth-century France.

ANSWER: Savien **Cyrano** de Bergerac

This writer wrote about Professor Protassof and Lisa during a cholera epidemic in *Children of the Sun*. For 10 points each:

[10] Name this Russian author of *Summerfolk* who wrote about the plight of the underclass in *The Lower Depths*.

ANSWER: Maxim **Gorky** [accept Aleksey Maksimovich **Peshkov**]

[10] This other Russian author created the characters Chichikov and Akaky Akakievich, who appear in *Dead Souls* and *The Overcoat*, respectively.

ANSWER: Nikolai Vasilievich **Gogol**

6. Langevin's equation states the real force on a particle as the sum of the forces involved in Brownian motion and the hydrodynamic version of this quantity. The Fresnel coefficient is sometimes known as the coefficient of [*this*], and it is often a result of friction between a solid surface and the gas it passes through. This force is responsible for an object reaching terminal velocity in free fall, and in aerodynamics it opposes thrust. For 10 points, name this force that retards an object's path through the air.
ANSWER: **drag** [prompt on "resistance"]

It is used to explain how both penguins and seals have flippers, yet that trait was not found in the common ancestor of birds and mammals. For 10 points each:

[10] Identify this type of evolution in which two organisms that are not closely related independently evolve similar traits as a response to their environment.

ANSWER: **convergent** evolution

[10] Structures that result from convergent evolution, such as the wings of bats and birds, are given this adjective, as opposed to homologous structures.

ANSWER: **analogous** structures

7. This man depicted the heads of Marco Vecellio, his son Orazio, and himself above those of a dog, wolf and lion in *Allegory of Prudence*. This man created two works for the Frari Basilica, *Assumption of the Virgin* and the *Pesaro Madonna*. Another work shows a cheetah-drawn chariot on the island of Naxos and is entitled *Bacchus and Ariadne*. His most famous work was created for the marriage of Giulia Varano to Guidobaldo della Rovere, and depicts a dog and a nude woman lying on a bed. For 10 points, name this Venetian artist of *Venus of Urbino*.

ANSWER: **Titian**

The Moon and Sixpence by W. Somerset Maugham and *The Way to Paradise* by Mario Vargas Llosa are both based on this man. For 10 points each:

[10] Name this Post-Impressionist artist of *The Yellow Christ* and *Where Do We Come From? What Are We? Where Are We Going?*

ANSWER: Paul **Gauguin**

[10] A peasant walks away from the viewer along a narrow path beneath a brown mountain and some palm trees in a Paul Gauguin "Landscape" of this island.

ANSWER: **Tahiti**

8. This writer's *Tales of the Cochiti Indians* is based on fieldwork studying the Pueblo, Serrano, and Blackfoot peoples. She attacked racist theory in *Race: Science and Politics*, and wrote poetry under the name Anne Singleton. This author of *The Concept of the Guardian Spirit in North America* and *Zuni Mythology* is also known for a work that was written for the Office of War Information. For 10 points identify this American anthropologist who compared the Zuni, Dobu, and Kwakiutl in *Patterns of Culture*, and examined the dichotomy of Japanese culture in *The Chrysanthemum and the Sword*.

ANSWER: Ruth **Benedict**

This book pessimistically concludes that modern man is trapped in a steel-hard shell. For 10 points each:
[10] Name this book which argues that the anxiety caused by belief in predestination gave rise to the modern Western economic system.

ANSWER: *The **Protestant Ethic** and the "Spirit" of Capitalism*

[10] This German sociologist wrote *Economy and Society* and *The Protestant Ethic and the "Spirit" of Capitalism*.

ANSWER: Max **Weber**



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Category Quiz
Bonus Choices

Arts
Current Events
Geography
History
Literature
Math Calculation
Philosophy
Social Science

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Category Quiz Tossups

9. The ladder operator method is used to analyze the solutions to this system's quantum analogue. Ones with a time-dependent external force are driven, while ones with a source of external friction are called damped. These systems famously display both linearity and time translation invariance, and their solutions frequently invoke an angular frequency proportional to one over the square root of mass. Springs are common examples of, for 10 points, what system, whose periodic motion centers on an equilibrium position?

ANSWER: **harmonic oscillator**

10. A major work of the Stuckism movement proclaims that "a dead one" of these "is not art," in reference to Damien Hirst's *The Physical Impossibility of Death in the Mind of Someone Living*, which shows one of these cut into three sections and preserved in formaldehyde. In another work, two men in white reach out to save the title naked figure from one of these animals; that painting, set near Havana, shows a man about to stab it with a harpoon. For 10 points, name this creature which John Singleton Copley depicted with "Watson."

ANSWER: **sharks**

11. He can climb like a ring-tailed lemur, and in order to get out of a speeding ticket, he claims he was rushing home to save a friend who was distraught over not becoming a banker. This man is caught with Babs at the end "The Switch," and with the wife of the landlord Silvio at the end of "The Reverse Peephole." This resident of Apartment 5E once attempted to drive a mail truck to Michigan to collect ten-cent refunds from bottles with his friend Kramer. For 10 points, name this portly character from *Seinfeld*, a postal worker played by Wayne Knight.

ANSWER: **Newman**

12. One character in this novel spies a dead dog in the waves and remembers how dogs used to frighten him. The protagonist had a son named Rudy who died at eleven days old, and is carrying on an amorous correspondence under the name Henry Flower. The protagonist's wife is having an affair with Blazes Boylan, and other characters in this novel include Buck Mulligan and Stephen Dedalus. For 10 points, name this novel about Leopold Bloom's walking around Dublin, written by James Joyce.

ANSWER: **Ulysses**

13. Vasco de Gama named it the Espiritu Santo River, and it joins the Marico River at the Bushveld Basin. This river is unnavigable until its confluence with the Olifants, and it reaches the fall line after receiving the Shashi River. The Hartbeespoort Dam blocks its headwaters, and this river shares its name with a province with capital at Polokwane. Rising as the Crocodile River in Witwatersrand, it forms part of Botswana's southeastern border. For 10 points, name this "greasy" river that flows into the Indian Ocean in Mozambique.

ANSWER: **Limpopo** River [prompt on "Crocodile River"]

14. Both Alexander Soloviev and Dmitry Karakozov attempted to assassinate this man, and later in his life, he arranged a morganatic marriage to his longtime mistress Catherine Dolgorukov. Yakov Rostovtsev and Nikolay Milyutin served as advisors to this man, whose "No Dreams" speech inspired the January Uprising in Poland. With the help of the aforementioned advisors, this man created the system of zemstvos and was killed while inspecting a carriage bomb planted by People's Will. For 10 points, name this Russian tsar who abolished serfdom.

ANSWER: **Alexander II** Nikolaevich [prompt on "Alexander"]



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Category Quiz
Bonuses

Arts

His paintings *The Sower* and *The Angelus* share the same theme as his best known work, which depicts three peasant women working in a field. For 15 points, name this member of the Barbizon School and painter of *The Gleaners*.

ANSWER: Jean-François Millet

Current Events

In a 2002 election, this man paired images of Osama bin Laden and his opponent, Max Cleland, a Vietnam veteran and triple amputee. For 15 points, name this Republican who defeated Jim Martin in a run-off to remain a United States Senator from Georgia.

ANSWER: Saxby Chambliss

Geography

Quechua for "Sentinel of Stone", this peak lies in the Mendoza province and was first ascended by Edward Fitzgerald and Matthias Zurbriggen. For 15 points, name this mountain that is the highest in Argentina and all of South America.

ANSWER: Mount Aconcagua [or Cerro Aconcagua]

History

He came to power after winning a civil war over Clodius Albinus and Pescennius Niger, and he succeeded the unpopular Didius Julianus. For 15 points, name this African-born Roman Emperor who established a namesake dynasty through his son Caracalla.

ANSWER: Caesar Lucius Septimius Severus Pertinax Augustus [prompt on "Severus"]

Literature

The title character of this poem "sighed for what was not" and "loved the Medici, Albeit he had never seen one." For 15 points, name this Edwin Arlington Robinson poem about a "child of scorn" who longs for the past.

ANSWER: "Miniver Cheevy"

Math Calculation

For 15 points, determine the point of the local minimum of the curve $y = 5x^2 + 20x + 8$. ANSWER: (-2, -12)

Philosophy

In one work by this philosopher, a shipwrecked crew discovers the island of Bensalem, which is home of Solomon's House. For 15 points, name this English philosopher who urged that the induction method be applied to science, and wrote *The New Atlantis* in addition to *Novum Organum*.

ANSWER: Francis **Bacon**

Social Science

He argued that the rise of corporations has disrupted competition among producers in *The New Industrial State*, though he is better known for a work which criticizes conventional wisdom. For 15 points, identify this author of *The Affluent Society*.

ANSWER: John Kenneth **Galbraith**



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Stretch Phase

15. This country's anti-colonial movement was enraged by the deportation of a former king, Mutesa II, and its royalists later formed the King Alone Party. Since the 1980s, it has been led by such figures as Tito Okello and Yoweri Museveni, who face the Lord's Resistance Army. Milton Obote's first term here ended in a coup by the man who later expelled Asians and was impersonated during a 1976 raid in this country by Israeli commandos, who freed 103 hostages at Entebbe. For 10 points, name this African nation, once ruled by the cannibalistic Idi Amin.

ANSWER: Republic of Uganda

Answer the following about visual methods of survival, for 10 points each.

[10] Seasonal forms of it include the weasel's transformation into the white-coated ermine for the winter, but better known forms of it are pulled off with chromatophores by creatures like cuttlefish.

ANSWER: camouflage

[10] Camouflage is generally executed to be invisible. In this technique, a harmless species imitates a dangerous one. An example is the burrowing owl, which nests in the ground and makes rattlesnake noises.

ANSWER: Batesian mimicry [prompt on mimicry]

[10] In this other form of mimicry, two dangerous species imitate each other, thus accelerating the rate at which a predator learns about warning signals.

ANSWER: Müllerian mimicry [prompt on mimicry]

16. One poem by this man concludes that "those purblind Doomsters had as readily strewn / Blisses about my pilgrimage as pain," and another describes hearing a bird's spontaneous song while leaning "upon a coppice gate." In addition to "Hap" and "The Darkling Thrush," this man wrote several novels, including one in which Damon Wildeve drowns while trying to save Eustacia Vye, the wife of Clym Yeobright. For 10 points, identify this author of *The Return of the Native*, in addition to *Jude the Obscure* and *Tess of the d'Urbervilles*.

ANSWER: Thomas Hardy

Answer the following about some continental philosophers, for 10 points each.

[10] Isolation is a recurring theme in this philosophical movement subscribed to by Martin Heidegger, Albert Camus, and Jean Paul-Sartre, who wrote that it was "a Humanism".

ANSWER: existentialism [accept word forms]

[10] This existential philosopher is also well known for laying the foundations of contemporary feminism with her work *The Second Sex* in addition to sleeping with Sartre.

ANSWER: Simone de Beauvoir

[10] One commonly cited proto-existential work is this one featuring the Knight of Faith. It reinterprets the biblical story of the binding of Isaac and was written by Søren Kierkegaard.

ANSWER: Fear and Trembling [or Frygt og Bæven]

17. Gyroscopic precession is also called this induced precession, and Poinso't's ellipsoid models another kind of precession called this-free. Deformation due to this creates a shearing stress and is called torsion. Equal to the product of the moment of inertia and the angular acceleration, it is also the time derivative of the angular momentum. For 10 points, identify this pseudo-vector quantity proportional to the cross product of the force applied and the lever arm, a rotational analogue of force.

ANSWER: **torque**

Identify some things related to the Peloponnesian War, for 10 points each.

[10] The war pitted Athens against this militaristic city-state, which was ruled by ephors.

ANSWER: **Sparta**

[10] This man was exiled from Athens after the fall of Amphipolis, and he took advantage of all of his resulting free time to write his *History of the Peloponnesian War*.

ANSWER: **Thucydides**

[10] This 405 BCE battle effectively decided the war when Lysander was able to capture almost all of the lightly guarded Athenian ships while the soldiers were ashore foraging.

ANSWER: Battle of **Aegospotami**

18. Two of these are recorded on tape and one is performing live in *Different Trains* by Steve Reich. One of these in D major quotes the banned "Hej Slované," and is by the composer of an "American" one inspired by Spillville, Iowa. Along with those by Dvorak, one of these by Schubert has a set of variations on the song "Death and the Maiden" in its second movement. Haydn wrote one that includes the theme "Deutschland Uber Alles" entitled *The Emperor*, and is credited with developing this form. For 10 points, name this ensemble that uses cello, viola, and two violins.

ANSWER: **string quartets**

The protagonist of this novel tries to kill Madame de Renal after she exposes him to his benefactor. For 10 points each:

[10] Name this novel centering on Julien Sorel.

ANSWER: The **Red and the Black** [or **Le Rouge et le Noir**]

[10] *The Red and the Black* is a work by this French author of *The Charterhouse of Parma*.

ANSWER: **Stendhal** [or Marie Henri **Beyle**]

[10] A literary character named Stendhal constructs working versions of death-traps described by Edgar Allan Poe in *The Martian Chronicles*, a work by this author of *Fahrenheit 451*.

ANSWER: Ray Douglas **Bradbury**

19. The Flory-Huggins model can be used to derive this quantity. Differentiating this quantity with respect to volume yields pressure, while differentiating with respect to number of particles yields chemical potential, and differentiating with respect to temperature yields entropy. The two main types of this are defined as either the internal energy or enthalpy minus the product of temperature and entropy. For 10 points, name this thermodynamic quantity that denotes the amount of work available in a system and comes in Helmholtz and Gibbs varieties.

ANSWER: **free energy** [or **Gibbs free energy**; or **Helmholtz free energy**]

Hazel Morse fails to kill herself in this author's short story "Big Blonde." For 10 points each:

[10] Name this author of "A Telephone Call," perhaps less known for fiction than for quotes about "girls who wear glasses" and throwing aside a book with great force.

ANSWER: Dorothy **Parker**

[10] Along with such figures as George Kaufman and *New Yorker* editor Harold Ross, Parker was member of this literary circle that met at its namesake New York hotel.

ANSWER: the **Algonquin Round Table**

[10] This other Algonquin member wrote such novels as *Saratoga Trunk*, *Cimarron*, *Show Boat*, *Giant and So Big*.

ANSWER: Edna **Ferber**

20. One author from this country wrote the four-volume *Emigrants* series. Another penned *The Wonderful Adventure of Nils* and *Gosta Berlings saga*. This home of Vilhelm Moberg and Salma Lagerlof produced an author who wrote about the man freed at the crucifixion in *Barabbas* and also penned *The Dwarf*. This home country of Par Lagerkvist also produced a writer who wrote about Jacob Hummel and Arkenholz in *Ghost Sonata* and about the title wrist-slicer in *Miss Julie*. For 10 points, name this country, home to August Strindberg.

ANSWER: Kingdom of **Sweden**

Identify some phenomena from physics, for 10 points each.

[10] In this effect, when an observer and a light source move away from each other, the frequency observed is multiplied by a factor of the square root of one minus beta over the square root of one plus beta.

ANSWER: **Doppler** effect [or **Doppler** shift]

[10] In this effect, a massive, rotating body distorts space-time, causing light to appear to be moving faster when moving in the direction of rotation.

ANSWER: **Lense-Thirring** effect [or **frame-dragging**]

[10] This thought experiment suggests that two individuals may be made dissimilar by allowing one to take a relativistic journey and having the other age normally.

ANSWER: **twin paradox**

21. The Christian sect named after this holiday is closely related to the Charismatic movement, and is split into Trinitarian and Oneness branches. Known in Judaism as Hag Shuvuot, this holiday stems from the Book of Acts, which claims that there was a "mighty rush of wind" and that the Apostles spoke in tongues on this day. An alternate name for this holiday stems from the white garments typically worn on it. For 10 points, name this holiday also known as Whitsunday, the fiftieth day after Easter.

ANSWER: **Pentecost** [accept **Whitsunday** before "White;" prompt on it thereafter]

Occurring two days after the Battle of Blanchetaque, this engagement was fought between the villages of Wadicourt and Estrees near the bank of the Maye River. For 10 points each:

[10] Name this 1346 battle that resulted in victory for the longbowmen of Edward the Black Prince and Edward III over Philip VI.

ANSWER: Battle of **Crecy**

[10] The Battle of Crecy, in addition to the battles of Sluys and Poitiers, was an early engagement in this war between England and France.

ANSWER: **Hundred Years' War**

[10] This battle between John of Gaunt, Edward the Black Prince, Pedro of Castile and Henry II of Castile was the decisive engagement of the Spanish theater of the Hundred Years War.

ANSWER: Battle of **Najera** [or **Navarrete**]

22. With David Dudley and Jeremiah Black, this man argued against Benjamin Butler for the defendants in the case of *Ex parte Milligan*. Prior to his ascension to a higher post, he was chosen to replace Allen Thurman in the Senate. Accused of authoring the Morey Letter, this man was the first to run a successful "front porch" campaign for president. For 10 points, name this victor over Winfield Scott Hancock in the 1880 presidential election, a man who was succeeded shortly thereafter by Chester Arthur because of an assassination carried out by Charles Guiteau.

ANSWER: James Abram **Garfield**

This series depicts Tom as he rejects his pregnant maid Sarah Young, and wastes all his money, eventually ending up in Bedlam. For 10 points each:

[10] Name this series of eight paintings produced in the 1730s.

ANSWER: A ***Rake's Progress***

[10] This British artist created *A Rake's Progress*.

ANSWER: William **Hogarth**

[10] With sections including *The Toilette* and *The Bagnio*, this other Hogarth series shows the evils of a certain institution, and ends with the Countess poisoning herself after her lover is hanged.

ANSWER: ***Marriage a-la-mode***