

## TOSSUPS – ROUND NINE

DENNIS HASKINS OPEN MARCH 2005 (UTC/CWRU)

Besides the usual suspects, questions by Macon State's Travis Lightsey, Valencia C.C.'s Chris Borglum, and Cal-Berkeley's Chris Nguyen, Paul Reverdy, Lev Trubov, & Larry Wang

1. In this battle, the strong position of the Greeks was undermined when the traitor Ephialtes showed the Persians another pass, causing the Greek line to be turned and forcing a withdrawal. Leonidas I of Sparta ended up using his troops as a sacrificial rear-guard so that the rest of the Greek army could retreat unharmed. For ten points, name this battle in which the retreating Greeks, pursued by the Persians, eventually fled behind the wall built across the isthmus to Corinth

Answer: Battle of **Thermopylae**

2. Dubula is considered the heart behind the powerful voice of the main character's brother. However, his brother is considered by many as a coward for speaking of radical change, but not implementing it. This cowardice can be seen by his actions in the trial where his son and Johannes Pafuri go free while the main character's son, defended by Mr. Carmichael, is convicted and hung. For ten points, name this Alan Paton novel about Stephen Kumalo's search for his son Absalom, who murdered the South African activist Arthur Jarvis.

Answer: **Cry, the Beloved Country**

3. The stereo- forms of these these can be enantiomers, which are non-superimposable mirror images, or diastereomers, such as the *cis-trans* configurations resulting from the rigidity of double bonds. Most commonly, though, when someone uses this term, they are referring so the constitutional, or structural, type. For ten points, identify this chemistry term for two different molecules with the same chemical formula.

Answer: **isomers**

4. The name by which he is best known is actually the namesake of a man he killed in Tam Quan for betraying his team. Other aliases he uses include Delta and Cain, but his real name is David Webb. After his author's death, he reappeared in a sequel written by Eric van Lustbader. FTP name this protagonist of a trilogy of Robert Ludlum novels, played in two recent movie adaptations by Matt Damon.

Answer: Jason **Bourne**

5. Pencil and paper ready. You will have fifteen seconds to buzz in, but only three seconds after you buzz in. FTP, what is the sine of 90 degrees?

Answer: **1**

6. Asher Durand and Frederick Church were prominent members of this movement, which attempted to portray the beauty and grandeur of nature in the American Wilderness. Beginning in 1825 and lasting until the late 1870's, this movement was founded by Thomas Cole. For ten points name this American school of art, named after the New York Valley in which many of its paintings were set.

Answer: **Hudson River School**

7. It is not 1984, but it is the namesake of a book. It is not 1939, but it saw a massive invasion of Poland. It is not 1991, but during it, Estonia, Latvia, and Lithuania became independent. Joan of Arc was canonized, Isaac Asimov was born, and Walther Nernst won the Nobel Prize for chemistry in this year. For ten points, what year also saw Prohibition go into effect, the first meeting of the League of Nations, the ratification of the 19th Amendment, and the election of Warren G. Harding?

Answer: **1920**

8. It seemed to him that he and his pain were being thrust into a narrow, deep black sack, but though they were pushed further and further in they could not be pushed to the bottom... And suddenly he broke through... In his death throes, he realizes that the life he has lived was a lie and that the urban society has corrupted him, in contrast to his assistant Gerasim, a peasant boy who understands his suffering and treats him with genuine kindness. For ten points, who is this character, whose death is the titular event of a Tolstoy novel?

Answer: **Ivan Ilyich**; accept either

9. Utopian writings like those taken from the "Peach Blossom Spring" often had this philosophy's undertones. Most of the sages in the 3rd century B. C. who practiced it were lowly artisans like butchers or woodcarvers who followed Zhuangzi's teachings. One of its major tenets was to live by conforming to the natural way of things which they called wu-wei. Translated as "the Way," for ten points, name this philosophy founded by Laozi in the 5th century B. C.

Answer: Taoism or Daoism

10. Its evolving domination in the mammalian brain involves its reception of wider and wider ranges of sensory information via the thalamus and the emergence of higher neural activities based on that data. Folding of its surface provides a large surface area for activity for the rich concentration of synapses. FTP name this layer of grey matter, also called the pallium, covering the cerebral hemispheres in most vertebrates.

Answer: **cerebral cortex** (accept early buzz with **pallium**)

11. Thomas Kyd accused him of treason. William Bradley had a bloody brawl with him. The Queen's secret service probably employed him. Ingram Frizer stabbed him to death by in an argument over a bill. But he is better known for dramatic successes like *Tamburlaine the Great* and *The Jew of Malta*. FTP name this English playwright who also wrote *Doctor Faustus*.

Answer: Christopher Marlowe

12. This folk song is thought to take the melody of a traditional English ballad and the lyrics of a pair of Kentuckians. Its subject is either a drunkard or a gambler and the narrator has different genders according to who is performing it. It has been covered by a wide variety of people, including Dolly Parton, Pink Floyd, and Peter Paul, and Mary, but most famous version single-handedly gave its one hit wonder band entrance into the Rock and Roll Hall of Fame. FTP, name this song, whose namesake building may or may not still exist in the town of New Orleans, a hit by The Animals.

Answer: The **House of the Rising Sun**

13. When the size of their motion is small, the differential equation governing their motion can be made linear, producing simple harmonic motion. For this approximate case, Christiaan Huygens proved that the period of their motion was proportional only to the object's mass and length, not, as then thought, to the size of the initial displacement, a fact used by many early clocks. For ten points, name this physical object, which comes in gravity and torsion varieties, one of which was used by Foucault in his famous experiment demonstrating the Earth's rotation.

Answer: pendulum

14. He has many names, including Smintheus, the mouse-god, as the bringer of plagues, Musagetes, leader of the Muses, as the god of music, and Loxias, the obscure one, as patron of oracles. His most famous oracle was founded at the site where he killed the serpent Python-- the island of Delphi. For ten, who is this Greek god also called Phoebus, shining, as god of the sun?

Answer: Apollo

15. Justice Story wrote the majority opinion in this 1841 Supreme Court case, which supported freedom for the clients of John Quincy Adams. When the US navy seized this ship, they found most of the crew dead, and presumably at the hands of the Africans on board. Name the ship on which Joseph Cinqué lead the mutiny, before returning to Africa and becoming a slave trader himself.

Answer: United States v The Libellants and Claimants of the Schooner Amistad

16. Despite illness, poverty, and an informal early education, he succeeded in high school and then went on to the Olmutz philosophical Institute. 8 years after becoming an Augustinian monk, he was sent to the University of Vienna, where meeting Doppler and Unger stimulated his interest in science in general and botany in particular. For ten points, who is this Austrian monk, famous for his work with peas?

Answer: Gregor Mendel

17. It is the only state whose flag has different pictures on each side. While it is the 9<sup>th</sup> largest state in terms of area, it's only 28<sup>th</sup> by population. Its highest point, at 11,239 feet, is Mount Hood. Its major universities are in Corvallis and Eugene. For ten points, name this 33<sup>rd</sup> state to join the U.S., nicknamed the Beaver State.

Answer: **Oregon**

18. Originally published in 1963 under the pseudonym Victoria Lucas, this novel was re-released posthumously under the author's real name three years later in the UK, though not in America until 1971. It chronicles college student Esther Greenwood's spiral into depression, suicide attempt, and beginning steps to recovery. For ten points, identify this semi-autobiographical novel by Sylvia Plath.

Answer: The **Bell Jar**

19. It was first outlined in a speech at Khabarovsk. While affirming the significance of the revolutionary past, it insisted on openly confronting the errors of past regimes in order to pave the way for *perestroika*, or restructuring. FTP name this political reform movement launched in 1986 by Soviet leader Mikhail Gorbachev.

Answer: **glasnost**

20. His sight-reading ability astounded even Liszt. After he died at the young age of 36, this composer's student work of Symphony in C Major became extremely popular when it was "discovered" in the twentieth century. Although a brilliant pianist in his time, much of his piano works remain outside the pianist's canon with the exception of his *Jeux d'enfants* for four hands. The composer of the *l'Arlesienne* Suites, FTP name this composer most famous for his opera *Carmen*.

Answer: Georges **Bizet**

21. Thomasville Furniture recently introduced a line inspired by the places associated with him. Many of his works were based upon his life experiences -- childhood summers in northern Michigan, serving as an ambulance driver in Italy in World War I, and living in Twenties Paris and pre-Castro Cuba. For ten points, name this American writer, winner of the 1954 Nobel Prize in Literature and author of *The Sun also Rises* and *A Farewell to Arms*.

Answer: Ernest **Hemingway**

22. It was the first number proven to be transcendental without having been specifically constructed for that purpose. It can be defined as the sum of one-over-n-factorial for n equals 0 to infinity, or as the limit as n approaches infinity of the quantity one plus one-over-n to the power of n. FTP, name this mathematical constant, the base of the natural logarithm, which is approximately equal to 2.71.

Answer: **e** (accept **Euler's number** or **Napier's constant**)

23. In anticipation of British attack, General Benedict Arnold ordered this, among others, built at Skenesborough, New York. On October 11, 1776, it was moored southwest of Valcour Island when the British fleet commanded by Captain Pringle attacked, and it was sunk in the ensuing battle. FTP, identify this continental gunboat, found preserved in the cold waters of Lake Champlain in 1934.

Answer: USS **Philadelphia**

1. **VISUAL BONUS:** Presumably none of you were alive in 1982, but take from your genial quizmaster, the world was a pretty scary place back then. You are about to be handed a page with pictures of six world leaders who contributed to that scariness. Name each person pictured for 5 points each. You have 15 seconds to begin your answer.

Answers: (a) Ayatollah Ruhollah **Khomeini**; (b) **Deng** Xiaoping [or **Teng** Tsiao-Ping]; (c) Leonid **Brezhnev**; (d) Yasir **Arafat**; (e) Margaret **Thatcher**; (f) Ronald **Reagan**

2. For ten points each, identify the following about a certain building.

a) Located on 23<sup>rd</sup> street in New York City, it became the home of many famous writers, artists and musicians since it became a hotel in 1905. A stay there inspired a Joni Mitchell song, which in turn inspired a future President and First Lady when they chose their child's name.

Answer: **Chelsea** Hotel

b) In the 1920's this man, the author of "The Ransom of Red Chief" would visit the Chelsea Hotel, signing in under a different name each time.

Answer: **O. Henry** or William Sydney **Porter**

c) In 1953 this poet uttered the famous quote, "After 39 years, this is all I've done" while at the Chelsea hotel, before dying soon after. Apparently that was the most rage he could muster against the dying of the light.

Answer: **Dylan Thomas**

3. Cryptozoology is fun. Identify the following allegedly real creatures FTPE.

(10) The head and hooves of a horse. The wings of a bat. The tail of a snake. Oh, and the local hockey team is named after it.

Answer: **Jersey devil**

(10) Huge glowing red eyes which appeared to be set into its chest. Large wings. 2002 movie.

Answer: **Mothman**

(10) A cross between a kangaroo, a gargoyle, and a space alien, supposedly responsible for the draining of the blood of various farm animals in Puerto Rico in 1995. This gave it its name, Spanish for "goatsucker."

Answer: El **Chupacabras**

4. Given a definition, name the term from solution chemistry, FTPE.

1. This measurement is the number of moles of solute dissolved in one liter of solution.

Answer: **molarity** NOT molality

2. This process determines the molarity of a solution by reacting quantities of it with a known concentration of another reactant and monitoring the resulting pH.

Answer: **titration**

3. This law states that vapor pressure is proportional to the mole fraction of the solvent in a solution.

Answer: **Raoult's** law

5. FTPE, name the French artist from the given paintings.

1. *The Raft of the Medusa* and a series depicting mental patients.

Answer: Theodore **Gericault**

2. *Women of Algiers, Liberty Leading the People*

Answer: Eugene **Delacroix**

3. *The Death of Marat*, *The Death of Socrates*

Answer: Jacques-Louis **David**

6. Identify the following people involved in the Battle of Gettysburg for the stated number of points.

5) The battle was this Confederate general's second attempt (after Antietam) at invading Union territory.

Answer: Robert E. **Lee**

15) Lee gave the task of attacking the Union's weak right flank to this one-legged replacement for Stonewall Jackson.

Answer: Richard **Ewell**

10) This major general led the final, futile Confederate assault on the Union center at Cemetery Hill.

Answer: George **Pickett**

7. Answer these related questions for ten points each.

a) This novel pits mental patient Randall McMurphy against the tyrannical Nurse Ratchet.

Answer: **One Flew Over the Cuckoo's Nest**

b) Who wrote *One Flew Over the Cuckoo's Nest*?

Answer: Ken **Kesey**

c) What character is the narrator of the novel?

Answer: Chief **Bromden**

8. Given the following values, identify the constants related to physics for ten points each.

a) 6.67 times ten to the negative eleventh power.

Answer: **Gravitational** Constant

b) 8.85 times ten to the negative twelfth power.

Answer: **Permittivity of Space** Constant

c) 8.99 times ten to the ninth power.

Answer: **Coulomb's** Constant

9. Russia borders an awful lot of countries. In Europe, it borders 5. Name them, getting 5 points for each correct nation plus a 5 point bonus for getting all of them.

Answer: **Ukraine, Belarus, Latvia, Estonia, and Finland**

10. Given a brief description, FTPE name these X-Files characters who weren't Mulder or Scully:

a. Played by Mitch Pileggi, he began as an opponent to the X-Files but he eventually became one of Mulder and Scully's few allies. As Assistant Director, he was able to get the agents out of trouble.

Answer: Walter **Skinner**

b. Played by Robert Patrick, he joined the show late in its run to help find the missing Mulder. He was briefly in charge of the X-Files. Though he was skeptical of the paranormal, he did what was needed to help Scully. The mystery of his son's murder was revealed in an episode.

Answer: John **Doggett**

c. Played by William B. Davis, this nemesis of Mulder and Scully was seen frequently, but until late in the series little was known about him. In fact, actual name was not learned until later seasons; he was identified by a constant prop.

Answer: either CGB **Spender** or **Cigarette Smoking Man** (also accept **Cancer Man**)

11. Answer these questions on parts of a flower:

(10) The flower's pollen is produced by these male reproductive organs, each consisting of a filament and an anther.

Answer: **stamen**

(10) The outermost part of the flower is the calyx, consisting of these leaf-like projections which are usually tougher and less colorful than the petals.

Answer: **sepals**

(10) Some flowers secrete this sugary liquid to attract pollinators.

Answer: **nectar**



12. Name the poem from its opening lines FTPE. If you need the poet, you only get five.  
 [10] "Though still unravished bride of quietness!" "Thou foster child of silence and slow time"  
 [5] John Keats  
     **"Ode on a Grecian Urn"** [accept but gently admonish them if they say "Ode To a Grecian Urn"]  
 [10] "It was many and many year ago, In a kingdom by the sea"  
 [5] Edgar Allan Poe  
     **"Annabel Lee"**  
 [10] "By the shores of Gitche Gumee/ By the shining big sea waters / Stood the wigwam of Nokomis"  
 [5] Henry Wadsworth Longfellow  
     **"Song of Hiawatha"** [sometimes excerpts are published under just "Hiawatha" so that's OK]

13. The U.S. presidential election of 1948 remains one of the most fascinating. FTPE name these key players:  
 a) While he'd been defeated by FDR in 1944, this Governor of New York and GOP nominee was considered the sure winner from the outset, so much so that he spent his entire campaign talking about unity and preparing to take office.  
     Answer: Thomas E. **Dewey**  
 b) Democratic incumbent Harry Truman saw some of his likely liberal support – over 1 million votes, or 2.4% of the total popular vote -- siphoned off by this candidate of the Progressive Party, who was still bitter that he'd been dumped after one term as FDR's Vice President in favor of Truman.  
     Answer: Henry A. **Wallace**  
 c) Truman pulled off the miracle come-from-behind victory despite losing four usually Democratic states in the South by pushing for a strong civil rights plank in the party platform. Their 39 electoral votes and another 2.4% of the popular vote went to this candidate of the States Rights Party, or Dixiecrats.  
     Answer: Strom **Thurmond**

14. Answer these related questions on Greek Mythology FTPE.  
 a) This woman was transformed into a cow by Zeus to help her avoid Hera's wrath. Hera sent the gadfly to torment her.  
     Answer: **Io**  
 b) Io ran into this Titan while he was chained onto a mountain. He was there by punishment for bringing humans the gift of fire.  
     Answer: **Prometheus**  
 c) Zeus crafted this woman to be man's punishment. She had a box filled with woes that she accidentally let loose upon all of mankind.  
     Answer: **Pandora**

15. FTPE, do the following modulus problems, also known as find the remainder. You have 10 seconds per part.  
 56 mod 3.  
     Answer: **2**.  
 127 mod 13.  
     Answer: **10**.  
 365 mod 7.  
     Answer: **1**.

16. Identify these theologians of the High Middle Ages, FTPE.  
 (10) This Dumb Ox, the Angelic Doctor, wrote a theological survey of all of knowledge, putting God at the apex of a hierarchy of abstractions and demonstrating that reason and faith could not be in conflict, the *Summa Theologica*.  
     Answer: Thomas **Aquinas**  
 (10) This Italian wrote *Cur Deus Homo?* i.e. "Why Did God Become Man?" giving a reasonable explanation to show why the Son of God had been incarnated as a man to save mankind.  
     Answer: **Anselm**  
 (10) This Parisian wrote *Sic et Non*, i.e. "Yes and No," a collection of inconsistent statements made by Fathers of the Church, applying logic to show wherein the truth of Christian doctrine really lay.  
     Answer: Peter **Abelard**

17. Name these people associated with Charlemagne FTPE.

A. This king of the Franks is noted for introducing European coinage in addition for being the father of Charlemagne.

Answer: **Pepin the Short** (or Pepin III)

B. After Charlemagne intervened when this pope was deposed, he repaid the favor by making him Holy Roman Emperor.

Answer: **Leo III**

C. This nephew of Charlemagne fought with him in his conquest of Spain and has a French epic poem named after him detailing his tragic fall to the Moors.

Answer: **Roland** [accept Orlando]

18. Answer these questions about dramatist Jean-Baptiste Poquelin (*poh-kuh-LAN*) FTPE.

A. Poquelin went by this pen name, under which he wrote *The Bourgeois Gentleman* and *The Imaginary Invalid*.

Answer: **Moliere**

B. Moliere is probably best known for the creation of this title figure, a hypocritical and conniving man of god who tries to take Orgon's home and daughter.

Answer: **Tartuffe**

C. The title character of this work is Alceste, who loves Celimene, but eventually quits society to become a hermit.

Answer: *The **Misanthrope***

19. Answer the following about Tupac Shakur, FTPE.

1. The head of Death Row Records was driving the car the night Tupac was shot. Name him.

Answer: Suge **Knight**

2. His mother Afeni belonged to this militant organization, co-founded by a man referred in Tupac's songs as "Huey."

Answer: **Black Panther** Party for Self-Defense

3. One of his best-known movie roles was as Bishop in this 1992 movie set in Harlem.

Answer: **Juice**

20. This is an intelligence question FTPE.

(10) Give the two letter term for the measure typically used to try to quantify what we mean when we say someone is smart.

Answer: **I**ntelligence **Q**uotient

(10) This French psychologist developed the IQ in 1904 in response to a request for a measure for predicting which youngsters would succeed and which would fail in primary school in Paris.

Answer: Alfred **Binet**

(10) Revision of the Binet test for a numerical index was made by Lewis Terman, a psychologist of this university in Palo Alto, California.

Answer: Leland **Stanford** Junior University

21. Answer the following about an organ, FTP each.

A. What organ of the human body is principally supplied by the renal artery?

Answer: **kidney**

B. What is the functional unit of the kidney? Its name resembles that of the term for study of the kidney.

Answer: **nephron** (the field is "nephrology")

C. One filter in the kidney is at the junction of the glomerulus and what structure, which encapsulates the glomerulus?

Answer: **Bowman's capsule**

22. Name these concepts from quantum mechanics for ten points each.

1. In quantum mechanics, observables are represented by this mathematical construct.

Answer: **operators**

2. All operators are of this type.

Answer: **Hermitian**

3. All allowed wavefunctions are elements of this infinite-dimensional vector space.

Answer: **Hilbert** space or **L2**

**VISUAL BONUS – ROUND NINE**

**DENNIS HASKINS OPEN MARCH 2005**

Name the world leaders from 1982 for 5 points each:

A.



D.



B.



E.



C.



F.

