

TOSSUPS – ROUND FIVE

DENNIS HASKINS OPEN MARCH 2005 (UTC/CWRU)

Besides the usual suspects, questions by Macon State's Brett Norris and Cal-Berkeley's Chris Nguyen, Paul Reverdy, Lev Trubov, & Larry Wang

1. The writings of Charles Dickens and Mark Twain were preparations for the conquest. One of the first to die in the invasion is astronomer Ogilvy, who only days before denied the existence of those who killed him. After the military is defeated, the population of London flees. The narrator spends fifteen days holed in a house on which one of the invaders' ships landed. Eventually the invaders and the "red weed" they brought with them succumb to Earth's bacteria. First descriptions of chemical weapons and kamikaze attacks occur in, for ten points, what H. G. Wells novel about a Martian invasion of Earth, most famous for its radio adaptation by Orson Welles?

Answer: The War of the Worlds

2. In April and May of 1989, it saw the construction of the "Goddess of Democracy and Freedom", a 27 ft. polystyrene and plaster statue modeled after the Statue of Liberty. Student activists held hunger strikes here, as well as marched with pro-democracy banners proclaiming, "Give us freedom or give us death". FTP, name this Peking square made famous in 1989 when Chinese students were fired on by tanks and military personnel.

Answer: Tienanmen Square

3. The equation assumes that the molecules involved have a volume of zero and do not attract each other, which works OK in our relatively low-pressure, high-temperature day-to-day world, but for true accuracy, the van der Waals equation must be used instead. The units most commonly used are liters, atmospheres, moles, and Kelvin, resulting in a value for the constant R of 0.08206. For ten points, this is what law of chemistry derived from Boyle's, Charles', and Avogadro's Laws?

Answer: the **ideal gas** law (accept **ideal gas equation** before "law"; prompt on $PV = nRT$)

4. Aside from the composer's performances at the Foundling Hospital, this piece wasn't played much during his lifetime. Part 1 of the recitative was sung by a boy soprano in a prose-like style accompanied by a cello and organ. It was composed during the rule of George II who stood up at the premiere near the close of Act II to honor the "King of Kings." Often heard during Christmas, for ten points, name this Handel oratorio containing the Hallelujah Chorus.

Answer: Messiah

5. This type of map has become a subject of great controversy, as critics argue it perpetuates Eurocentrism by placing Europe in the center and downplaying the size of nations near the Equator. It is a cylindrical conformal projection, allowing for the spherical Earth to be represented as a rectangle with preservation of angle. For ten points, name this map projection, developed by Gerhard Kremer in 1569.

Answer: **Mercator** projection [Kremer was his German name]

6. In the movie "Serendipity," Sara writes her phone number in this book. This book tells of the off-and-on love affair of Florentino Ariza and Fermina Daza, who in the end are forced to cruise the river after raising the yellow flag representing the titular disease. FTP name this novel, written by Gabriel García Márquez.

Answer: Love in the Time of Cholera

7. This contains over 95 percent of vitrinite, which is derived from woody plant tissue. The combination of volatile matter and low moisture content make it useful in a wide variety of industrial applications. Most notable among those is the production of coke, an important material in smelting iron ore. Also used in steam production for electricity and boiler plants, burning kinds with medium to high-sulfur content causes acid rain. Also called soft coal, name, FTP, this type of coal which is just below anthracite in carbon content.

Answer: **bituminous** (accept **soft coal** up to its appearance in the question)

8. Attempted territorial gains by Christian IV. The imposition of Catholicism by Ferdinand II. Anti-Catholic crusades by Gustavus Adolphus. The usual squabbling between France and the Habsburgs. These are all facets of this series of conflicts, often divided by scholars into five periods including the Bohemian and Palatinate. Leading to the abandonment of the concept of a Roman Catholic empire in Europe, FTP name this war, ended in 1648 with the Peace of Westphalia.

Answer: the **Thirty Years' War**

9. It teaches that God is completely good and wholly spiritual, and that all his creations are perfect. Because of this, adherents believe that all evils, including disease, result from not being close to God. Therefore, they turn to prayer before modern medicine, often causing its followers to butt heads with the government over the care of minors. For ten points, what is this religion founded in 1879 by Mary Baker Eddy?

Answer: **Christian Science** (or Scientist)

10. Oddly enough, even though he is a star face of the series now, he didn't appear until the third installment of *Tony Hawk's Pro Skater*. A member of Element Skateboards, he made a name for himself on MTV, appearing in both the stunt reality show and another program. For ten points, name this "insane" skater, the star of "Viva la" himself.

Answer: Brandon Cole "Bam" **Margera**, or just "**Bam**"

11. In signal detection theory, it is the name of both the outcome probabilities of hits and false alarms and the payoff table for correct responses. In biology, it is the region enclosed by the inner membrane of mitochondria containing ribosomes and DNA necessary for cellular respiration. The first word in the expansion of the name of the programming language Matlab, it is most famously used in linear algebra, where these structures can be transposed and possibly inverted. FTP name the rectangular array of numbers made into a movie starring Keanu Reeves.

Answer: **matrix**

12. Lord Wilmore, Sinbad the Sailor, and Abbè Busoni are among the alter egos assumed by the protagonist of this novel. Framed for treason by some neighbors, he is officially arrested on the day of his wedding to his beloved Mercedes. With the help of a priest, the Abbè Faria, the protagonist is able to escape from jail, and somewhere around Chapter 30 even the narrative stops using his real name, Edmond Dantes. FTP name this tale of revenge by Alexandre Dumas.

Answer: **The Count of Monte Cristo**

13. Clarence Darrow, an attorney for management, was incensed by management's handling of this event that he quit to become an attorney representing labor in future disputes. Clashes that occurred during this included one between Illinois governor John Altgeld and Grover Cleveland when Cleveland brought in federal troops to stop this event. Eugene Debs saw his rise during this event where, for ten points, the American Railway Union went on a strike that resulted in the paralysis of the railway system from Chicago to the Pacific Coast.

Answer: **Pullman** strike

14. Ironically, Sabina is married to one of the titular figures while the titular figures' sister Camilla was to be betrothed to his opponent. Taken from a story by Titus-Livy, this painting shows the sisters in a state of anguish on the lower left as the three titular figures, one of whom is clutching a spear, reach their hands towards the swords held by the central figure, their father, in, for ten points, what painting by Jacques Louis David [*dah-VEED*]?

Answer: **Oath of the Horatii**

15. Gnetophyta contains 70 species, including several types of tropical vine and ephedra, or Mormon tea. The sole species of ginkgophyta is its namesake ginkgo biloba. The best known members, however, are the nondeciduous conifers. For ten points, name this group of plants which includes the four divisions of seedless vascular plants?

Answer: **gymnosperms**

16. She was a calypso singer before coming to prominence as a civil rights activist in the 1960's. She read her poem "On the Pulse of Morning" at the 1993 presidential inauguration of Bill Clinton. But she is most famous for her autobiographical writings. For ten points, name this author, the writer of *All God's Children Need Traveling Shoes* and *I Know Why the Caged Bird Sings*.

Answer: Maya **Angelou**

17. It has been used as a basis for both neutrality and federalism, although, in a pure sense, it has nothing to do with either. In its namesake novel, Captain Kirk is court-martialed for causing a nuclear war on a primitive planet. In "Who Watches the Watchers," it is violated when Jean-Luc Picard is seen by the Mintakans and is believed to be a god. In "Patterns of Force," historian John Gill violated it and set up a carbon copy of Nazi Germany on Ekos. Also known as Starfleet General Order Number One, this is, for ten points, what highest law of the Federation that prohibits Starfleet personnel from interfering with a culture that has not invented a warp drive?

Answer: the Prime Directive (accept Starfleet General Order Number One before it is mentioned)

18. Isaac Newton threatened to leave the Royal Society when this man criticized Newton's discovery that prisms didn't modify white light, it instead split it. He first developed the inverse square law of gravitation which Newton proved in his *Principia Mathematica* without giving original credit to the author. FTP, correctly identify this 17th century scientist whose namesake law describes the relationship between applied force and the change in length of a spring.

Answer: Robert Hooke

19. Planned to be a symbolic 1,776 feet high, taller than the current world's tallest building, it will have 70 stories and feature 2.6 million square feet of office space. An innovative design of the structure includes the integration of wind turbines, which will generate 20% of the energy for the building. For ten points, identify this future building that will replace the World Trade Center destroyed on September 11, 2001.

Answer: Freedom Tower

20. 1899: The Stanford axe was first stolen at a baseball game in San Francisco. 1920: The murders later attributed to Sacco and Vanzetti occurred. 1989: The Tiananmen Square protests began in Beijing. 1912: The RMS Titanic sank in the North Atlantic, killing 1,523 passengers and crew. 1865: Abraham Lincoln succumbed to the gunshot wound inflicted by John Wilkes Booth. For ten points, give the calendar date shared by these events, hated by many Americans as the day Federal income taxes are due.

Answer: April 15

21. It was thought that the unification of China under the Qin happened because the Qin had more access to this. China remained the only country able to use it to its full capacity until Europe's middle ages, because in its raw form it is not much harder than bronze, and it more brittle. For ten points, what is this metal that despite these shortcomings, succeeded bronze in most non-ornamental use, partly because of the victory of kingdoms such as the Hittites?

Answer: iron

22. Members of this phylum can range in size from having a body width of one millimeter to having a diameter of over two meters. Organized at the tissue level, they possess an internal gastrovascular cavity, a non-cellular mesoglea, and organelles called nematocysts. Mostly radially symmetrical, they have two major body types: the polyp and medusa. For ten points -- name this phylum that includes corals, sea anemones, hydras, and jellyfishes.

Answer: Cnidaria

23. Possibly the first use of a flamethrower occurred in the aftermath of this battle. The men from the tiny city of Thespieae sided with their traditional enemies, and were rewarded by being placed on the left wing and massacred by the Athenian right wing under Pagondas. That didn't help the Athenians, as Hippocrates, using a non-traditional phalanx 25 ranks deep, tore through the Athenian ranks and chased them back into the fort for which the battle is named. Socrates and Alcibiades both participated in, for ten points, which battle, the largest of the Archidamian War, ironically fought by Athens against not Sparta, but Thebes, in 424 B. C. E.?

Answer: battle of Delium

1. **VISUAL BONUS:** To paraphrase Jon Stewart, it's time for famous pictures of naked people. You are about to be given a page with pictures of three noted sculptures on it. Identify by letter each sculpture for 5 points each and the artist for another 5 points. You have 15 seconds to begin your answer.

Answers: (a) **David** by **Michelangelo** Buonarroti; (b) **Discobolus** (or **Discus Thrower**) by **Myron**; (c) **The Thinker** (or **Le Penseur**) by Auguste **Rodin**

2. For ten points each, which character says the following lines from *Hamlet*?

a) "This above all, – to thine own self be true"

Answer: **Polonius**

b) "Now cracks a noble heart. -- Good night, sweet prince"

Answer: **Horatio**

c) "There's rosemary, that's for remembrance"

Answer: **Ophelia**

3. Answer the following from electrical physics FTPE:

(10) Often denoted by Q, this property of matter is measured in Coulombs. The electron is negative in this while the proton is positive.

Answer: **charge**

(10) Symbolized by C, and usually found as a parallel plate, this circuit element stores charge creating an electric field.

Answer: **capacitor**

(10) The derivative of the voltage across a capacitor times the capacitance is equal to this.

Answer: **current** ($Q = CV$)

4. Remember the Sega Dreamcast? Identify the following for ten points each.

a) This football line that helped push the system was the first to feature online play through the system's modem.

Answer: the **NFL2K** series

b) This first-party game was the first to use cell shading as you skated around and spray-painted graffiti in the town.

Answer: **Jet Grind Radio**

c) Yu Suzuki's most epic adventure series originally started on the Dreamcast. It featured Ryo Hazuki and his quest for revenge against Lan Di. Name this game.

Answer: **Shenmue**

5. Name the person on a 30-20-10 basis.

(30 points) The only active-duty US Navy ship named after a foreigner is named after him, though it should be noted that his mother, the former actress Jennie Jerome, was American born.

(20 points) First Lord of the Admiralty during the first half of WWI, he was forced from the government after the Gallipoli disaster, for which he was blamed.

(10 points) He rescued his once-tarnished reputation as Prime Minister of the United Kingdom for most of WWII

Answer: Winston Leonard Spencer **Churchill**

6. The original dysfunctional family of Western culture: FTPE, stuff about a child of Zeus.

The goddess of wisdom, she sprang fully grown from Zeus' head.

Answer: **Athena**

Athena's mother was this woman, Zeus' first wife, whom he swallowed to prevent the birth of the child out of fear that this child would overthrow him.

Answer: **Metis**

Athena offered wealth and promised to help this mortal lead Troy to a victory over the Greeks in return for him judging her the fairest of the three goddesses. When he took Aphrodite's bribe instead, she switched to the Greek side.

Answer: **Paris**

7. Identify the following types of chemical bonds, FTSNOP.

(5) Bonds in which two atoms share one or more pairs of electrons.

Answer: **covalent** bonds

(5) Bonds formed by electrical attractions between oppositely charged species, as in NaCl.

Answer: **ionic** bonds

(10) Interactions between an electronegative atom and a covalently bonded hydrogen, as in water.

Answer: **hydrogen** bonds

(10) Interactions between nonpolar molecules in which random variations in the electron distribution in one molecule create an opposite charge distribution in the adjacent molecule.

Answer: **van der Waals** attractions

8. Answer these questions about books appearing on the American Library Association's list of most banned or challenged books for ten points each.

a) The third-most challenged book of 2003, this 1937 John Steinbeck novella tells the story of Lennie and George.

Answer: **Of Mice and Men**

b) This 1993 work by Lois Lowry, #11 on the banned books list for the 1990s, concerns a boy who attempts to break free from a futuristic dystopian society.

Answer: **The Giver**

c) This author's *We All Fall Down* was #8 on the list of most challenged books during 2003. His other works to run afoul of the book-banning crowd include *I Am the Cheese* and *The Chocolate War*.

Answer: **Robert Cormier**

9. For ten points each, name the band given singles from their respective self-titled albums.

a) "Queer," "Stupid Girl," "Only Happy When It Rains"

Answer: **Garbage**

b) "Darts of Pleasure," "Michael," "Take Me Out"

Answer: **Franz Ferdinand**

c) "Trapped in a Box"

Answer: **No Doubt**

10. 30-20-10, name the person.

For 30, according to the official accounts of his country, his birth in 1942 on Mount Paektu was heralded by a rainbow.

Other sources indicate he was actually born in Siberia

For 20, this world leader is a movie aficionado, likes to wear platform shoes, and has an intense fear of flying. While he has held the same office since 1994, that office did not officially make him head of state until 1998.

For 10, this "ronery" leader of North Korea succeeded his father, Kim Il-Sung, as de facto leader upon his father's death in 1994.

Answer: **Kim Jong-il**

11. At 23.5 degrees south, the Tropic of Capricorn crosses most of the world's southernmost countries at some point. Surprisingly, there are only four independent nations that lie wholly below that line. Name any three for 10 points each. A couple of hints: All four are fairly small, and only one is an island nation.

Answers: any three of **New Zealand, Lesotho, Swaziland, and Uruguay**

12. Given a description, name these cell organelles FTPE.

This "power plant" of the cell manufactures ATP which is the basic unit of energy for life. There are normally 1 to 2 thousand of these in a human liver cell.

Answer: **Mitochondrion** (-a)

This organelle is composed of rRNA and translates mRNA into protein as they float freely in the cytoplasm of cells.

Answer: **Ribosome**

These are found in both plant and animal cells that process protein and act as the central delivery system for the cell.

Answer: **Golgi Apparatus** (acc. body and complex)

13. Name the dynasty based on some of its leaders FTPE.

a) Henry VII and Elizabeth I.

Answer: **Tudor** Dynasty

b) Hong Wu, Jian Wen, and Xuande (shoe-and-ee).

Answer: **Ming** Dynasty

c) Peter the Great, Catherine I, and Peter II.

Answer: **Romanov** Dynasty

14. FTPE, give the areas of the following. You have 10 seconds per part.

A circle with circumference 20 pi inches.

Answer: **100 pi square inches**

A square with a perimeter of 28 meters.

Answer: **49 square meters**

A right triangle with a hypotenuse of 13 feet.

Answer: **30 square feet**

15. I'll give you a quote from a work of Romantic poetry, give me the name of the work for ten points each. You'll get five if you need the name of the author.

1. (10 points) "O wind! If winter comes / Can spring be far behind?"

(5 points) Percy Bysshe Shelley.

Answer: **"Ode to the West Wind"**

2. (10 points) "One shade the more, one ray the less, / Had half impair'd the nameless grace / Which waves in every raven tress, / Or softly lightens o'er her face;"

(5 points) Lord Byron.

Answer: **"She Walks in Beauty"**

3. (10 points) "The winds that will be howling at all hours, / And are up-gathered now like sleeping flowers; / For this, for everything, we are out of tune; / It moves us not."

(5 points) William Wordsworth.

Answer: **"The world is too much with us; late and soon"**

16. Name these famous concepts from philosophy FTPE.

A. The namesake of this principle was a Franciscan scholar who promulgated the idea that one should eliminate all unnecessary facts when analyzing a subject.

Answer: **Occam's Razor**

B. The French religious thinker and mathematician who postulated this idea felt that you have everything to gain and nothing to lose in believing in God.

Answer: **Pascal's Wager**

C. This medieval French philosopher namesake hypothesized that, given free will and placed equidistant between two identical stacks of hay, the animal won't have any basis for choosing one over the other.

Answer: **Buridan's Ass**

17. Given a character from Prokofiev's *Peter and the Wolf*, name the instrument that represents the character FFPE:

a) Peter

Answer: **strings** section or **violin** or **cello**

b) Peter's grandfather

Answer: **bassoon**

c) Peter's Cat

Answer: **clarinet**

d) The wolf

Answer: **French horns**

e) Duck

Answer: **oboe**

f) Bluebird

Answer: **flute**

18. For ten points each, answer the following about prescription drug issues.

a) Give the market name of Rofecoxib, a popular anti-inflammatory which was withdrawn from the market by Merck in 2004 due to findings that it increased the chance of heart attacks.

Answer: **Vioxx**

b) What similar drug, Celecoxib, marketed by Pfizer was found to have similar effects in December 2004 but was not pulled from shelves?

Answer: **Celebrex**

c) Frances Kelsey became a hero for her 1960 decision to withhold approval in the US of what birth-defect-causing drug?

Answer: **Thalidomide**

19. Most Civil War generals had nicknames. For ten points each, given a nickname, name the Union general.

1. Young Napoleon.

Answer: George Brinton **McClellan**

2. Old Rosey.

Answer: William S. **Rosecrans**

3. Old Brains.

Answer: Henry Wager **Halleck**

20. FTPE, name the African-born winners of the Nobel Prize for Literature from given clues

a. This 2003 Nobel winner was born in South Africa. He wrote *Waiting for Barbarians*, and *Dusklands* among other works.

Answer: J.M. **Coetzee**

b. This 1991 Nobel winner was also born in South Africa. She wrote *A Guest of Honour*, *The Conservationist*, and the *Burger's Daughter* among other works.

Answer: Nadine **Gordimer**

c. This 1986 Nobel winner born in Nigeria. He wrote 20 plays, novels, and collections of poetry.

Answer: Wole **Soyinka**

21. 5-10-15, answer the following questions about the Abu Ghraib scandal.

5 – What Bush administration official took “full responsibility” for the events that occurred at Abu Ghraib?

Answer: Donald **Rumsfeld**

10 – Who is the female private seen in some of the most well-known Abu Ghraib pictures, grinning and pointing at the genitals of naked Iraqi prisoners?

Answer: Lynndie **England**

15 – Who was the senior US military officer in Iraq who has been implicated as authorizing some of the torture methods used in Abu Ghraib?

Answer: Gen Ricardo **Sanchez**

22. Identify the division of FedEx from the color, FTPE.

a) Orange

Answer: FedEx **Express**

b) Green

Answer: FedEx **Ground** or FedEx **Home Delivery**

c) Blue

Answer: FedEx **Kinko's** or FedEx **Custom Critical**

VISUAL BONUS -- -- ROUND FIVE

DENNIS HASKINS OPEN MARCH 2005

For each sculpture, name the work for 5 pts. and the sculptor for another 5.

A.



B.



C.

