

TOSSUPS – ROUND 2 DENNIS HASKINS OPEN HS QUIZBOWL 2001 – UTC
Questions mostly by Victoria Rubin (University of Georgia) and Phil Groce (Secureworks, Inc.)

1. This man flat-out rejected Kepler's planetary laws, and he repeatedly attempted to prove that planets' orbits were circular and not elliptical. Unsuccessful in this pursuit, he did end up discovering several major astronomical features, including four moons around Jupiter. For ten points, name this physicist and astronomer whose works include the *Starry Messenger* and the *Dialogue on the Two Chief World Systems*.

Answer: Galileo Galilei

2. He was a minister of Moses, charged by God with dividing the land given to Moses among the Israelites. He was also successful as a military leader, smiting the Canaanites, Amorites, and Hittites, among others. FTP, name this subject of the sixth book of the Bible, who, according to a well-known spiritual, "fit the battle of Jericho".

Answer: Joshua

3. Born in Scotland, he changed his name and moved to America to avoid a trial springing from handling a ship's mutiny improperly. As a naval officer during the American Revolution, he disrupted shipping off the coasts of Britain and North America. His most famous victory came in 1779, aboard the Bonhomme Richard. FTP, name the officer who, when asked to surrender by the Serapis, said, "I have not yet begun to fight."

Answer: John Paul Jones

4. This play premiered on Broadway on March 24, 1955. Its central character has two sons: Gooper, who has five children and a sixth on the way; and Brick, an alcoholic whom the father has a special bond with. FTP, which Tennessee Williams play follows a Mississippi Delta family on Big Daddy's 65th birthday?

Answer: Cat on a Hot Tin Roof

5. Ben Affleck, Paul Reubens, Hilary Swank, David Arquette, Luke Perry, and Donald Sutherland all appeared in this 1992 cult hit. The tagline for its trailers was "Sometimes it takes more than just good looks to kill." FTP, name this Kristy Swanson vehicle penned by Joss Whedon that spawned a successful television series starring Sarah Michelle Gellar.

Answer: Buffy the Vampire Slayer

6. According to the people of this region, before the dawn of history, it was held together by a succession of immortal rulers. The first human king, Lhatho tho-ri, fell from the sky onto a mountain in Kong-Po and was proclaimed sovereign. Buddhism was brought here in 8 C.E. by an Indian monk, Padmasambhaval [PUD-muh-shum-BUH-vull], and remains the most prominent religion in the region to this day. FTP, name this Chinese territory whose freedom is a pet cause of celebs like the Beastie Boys.

Answer: Tibet

7. No team *currently* in their conference had ever won an NCAA men's tournament game, and until this team pulled off the feat this year, the College of Charleston and Arkansas-Little Rock were the only TAAC teams to do that. But this team, led by their backcourt of Shernard Long and Kevin Morris, used several transfer players with major college experience to upset the 6th-seeded Wisconsin Badgers. FTP, name this Atlanta school, the fourth team led to the Dance by coach Lefty Dreisell.

Answer: Georgia State University

8. Their mouths are surrounded by rings of enlarged, branching tube feet, called tentacles. They use these tentacles to trap tiny food particles and push them into their mouths for sustenance. Like other echinoderms, they exhibit pentaradial symmetry and are marine, though unlike many of their relatives, they lack spines and are soft and flexible. FTP, identify these sea creatures, common in Japanese cuisine, but not crispy vegetables like their names would suggest.

Answer: sea cucumbers

9. It was formed in 1960 in reaction to its member nations' exploitation by large European and American corporations. Eventually, however, it became evident that this organization's member countries, which today include Liberia and Venezuela, could take the upper hand by regulating production of their most valuable commodity, which they did dramatically in December 1973. FTP, give the name of this group, arguably the most powerful in the oil industry.

Answer: **OPEC** or the **Organization of Petroleum Exporting Countries**

10. Her name translates as "she who disbands the armies", although she is not a warrior but an administrator. Along with her friends Calonice, Myrrhine, and Lampito, she establishes a pact among all the women of Greece. FTP, name this Aristophanes title heroine who brokers a peace treaty by swearing all females to celibacy until the war ends.

Answer: **Lysistrata**

11. This instrument used to be favored in church and chamber music, but it declined around 1700. It later regained popularity in military bands, which was when it was given a wider bell. It was included in Mozart's *Don Giovanni* and Beethoven's *Fifth Symphony*, and it became firmly established in the orchestra around 1850. Once known as the *sackbut*, FTP, name this instrument played by Tommy Dorsey and Glenn Miller, noted for its unique slide mechanism.

Answer: **trombone**

12. His actions led to the formation of the Everlasting League among the forest cantons of Uri, Schwyz, and Unterwalden. A native of Uri, he killed Gessler, an Austrian bailiff, in revenge, setting off the revolt that ousted the bailiffs in 1308. FTP, name this subject of a Schiller drama and a Rossini opera, a legendary Swiss archer.

Answer: William **Tell**

13. It is named in honor of the Italian physicist who postulated in 1811 that equal volumes of gases, at equivalent temperatures and pressures, contain the same number of molecules. FTP, what constant refers to the number of molecules that exist in one mole of any substance?

Answer: **Avogadro's Number**

14. His earliest-known short story is "Little Hut", which was published in 1884. "Mrs. Frola and Mr. Ponza, Her Son-in-Law" is a tale about the impossibility of penetrating other people's minds, but it's most important as the basis of his first major play, *Right You Are (If You Think You Are)*. FTP, name this Italian Nobel laureate best-known for *Six Characters in Search of an Author*.

Answer: Luigi **Pirandello**

15. Pencils ready. FTP, solve the system of equations for x and y.

$$3x - 2y = 5$$

$$2x - 5y = -4$$

Answer: **x = 3 y = 2**

16. Based in part on a work by Giorgione, it was one of the first prominent works to show obvious signs of being painted in a studio. A woman in the background bends over in a white shift. She is unconnected to the action in front, where two well-dressed men talk with a nude woman on a blanket. FTP, name this revolutionary painting by Edouard Manet.

Answer: **Luncheon on the Grass** (or, for true nerds, *le Dejeuner sur l'Herbe*)

17. He had 3 children by Angerboda - Fenris, Hel, and the Midgard serpent. He was punished for tricking Hoder into killing Balder. FTP, name this Aesir and Norse deity, notable for being a "trickster."

Answer: **Loki**

18. Written by James Madison, it was one of the two constitutional amendments offered with the Bill of Rights that was not passed, and it prohibits a sitting Congress from voting itself a pay raise, mandating that any pay raise will not take effect until the next Congress has been seated. Finally passed in 1992, this is, FTP, which last amendment of the United States Constitution?

Answer: 27th Amendment

19. One way of demonstrating it is through a hot-air balloon. The air in the envelope is heated by a gas burner. As the temperature rises, the gas expands in accordance with this law. FTP, name the gas law which states that, at constant pressure, the volume of a mass of gas is directly proportional to the temperature.

Answer: Charles' law

20. His daughter, Susan, was herself an author of some renown, and her *Rural Hours* is thought to have been the prime influence for Thoreau's *Walden*. He himself was not much of a naturalist, however, and this New Yorker's works often focused on military and historical themes, as in *The Pilot* and *The Spy*. FTP, name this author most famous for penning a series of five novels including *The Prairie*, *The Pathfinder*, and *The Last of the Mohicans*.

Answer: James Fenimore Cooper

21. Adlai Stevenson's middle name is also the same as a surname of a former Georgetown and New York Knicks great, the first Secretary of the Interior and an infamous TV role for Larry Hagman. For ten points, what's their common name?

Answer: Ewing (Patrick, Thomas, and J.R. respectively)

22. Arthur Fry wanted to hold his place in church hymnals, and when he came up with this discovery, he didn't know if his idea would stick. FTP what are these yellow office memo mainstays manufactured by 3M?

Answer: Post-It Notes

23. First, take one cup of whipping cream. Then, add about _ cup of buttermilk. Cook over moderate heat until lukewarm and let stand at room temperature 12-15 hours, or until it has thickened to the consistency of stirred yogurt. Then, refrigerate to allow the flavors to mellow. It can then be used on fruit or in tarts. FTP, name this tangy French condiment.

Answer: crème fraîche

1. You know that awful Nine Days song? The one that begins, “This is the story of a girl who cried a river and drowned the whole world?” Heh, heh, heh. Pencils and paper ready, ten points each. 15 seconds per part. Assume that each of the girl’s eyes are capable of crying two milliliters per second. How long, *to the nearest minute*, would it take for the girl to cry one liter?

Answer: **Four minutes** (250 seconds)

Using the four minutes per liter figured in the previous part, how long would it take her to cry one cubic meter?

Answer: **4,000 minutes** (or 66 hours & 40 minutes; or 2 days, 18 hours, 40 minutes)

Let’s assume that Nine Days are exaggerating, and the girl didn’t cry a river that drowned the whole world, but rather a river with the volume of the Pacific Ocean, with an area of about 166,000,000 square kilometers, and an average depth of about 4,000 meters. Which of the following would best approximate how long the girl cried: three hundred thousand years, three million years, three hundred million years, or three billion years?

Answer: **three hundred million years**

2. Given a description, name the halogen FTPE.

This violet solid sublimates when warmed. Tinctures of it are used to cleanse wounds.

Answer: **iodine**

It forms a noxious diatomic gas with a pale green color. Its anion forms epsom salts with aluminum.

Answer: **chlorine**

The rarest of the halogens, it sits at the bottom of group VII. Little is known of its properties, though it’s thought to be highly acidic.

Answer: **astatine**

3. Name the famous William on descriptions FTPE.

This Swiss national hero had a Rossini opera named after him.

Answer: **William Tell**

This poet and physician wrote that silly poem about the red wheelbarrow, as well as the collection Pictures from Breughel.

Answer: **William Carlos Williams**

His namesake “razor” posits that the simplest hypothesis is usually the correct one.

Answer: **William of Ockham**

4. Identify these important routes from American history FTPE.

This trail stretched from Independence, Missouri, to the Columbia River. It was one of the main paths of pioneer travel to the West in the mid-19th century.

Answer: **Oregon Trail**

This 780-mile wagon route went southwest from Independence. In 1880, it was superseded when its terminus was connected to the Transcontinental Railroad.

Answer: **Santa Fe Trail**

Daniel Boone blazed this route which led from the Shenandoah Valley to the Cumberland Gap.

Answer: **Wilderness Road**

5. Name these works by John Steinbeck from a very brief description, FTP each.

Joad family leaves Dust Bowl for California.

Answer: *The Grapes of Wrath*

Steinbeck crosses the country with elderly poodle

Answer: *Travels with Charley*

Lennie likes small furry creatures too much. George tries to take care of him.

Answer: *Of Mice and Men*

6. One of the more welcome trends of the last few years is the rise of engineering game shows. For 10 points apiece, name these cable game shows.

This British game show, airing on TLC in America, pits teams of 3 regular joes and one engineer against each other as they build sophisticated machines like cannons and radio-controlled airplanes from scrap materials.

Answer: **Junkyard Wars**

Biohazard won a surprise heavyweight championship over Vlad the Impaler in the latest round of this Comedy Central Sports entry, although the real highlight was Toro's domination of the superheavyweight rumble.

Answer: **Battlebots**

Not to be outdone by Battlebots, TLC is introducing this competition in which robots first face three challenges – the Maze, the Gauntlet, and Speedway – before the top two contenders on each episode Fight to the Finish.

Answer: **Robotica**

7. FTPE, identify these figures associated with Transcendentalism.

His essays include "Walking", and he also wrote A Week on the Concord & Merrimack Rivers.

Answer: **Henry David Thoreau**

He is most famous for lectures like "Nature" and "The American Scholar".

Answer: **Ralph Waldo Emerson**

Along with Emerson, she cofounded The Dial in 1840.

Answer: **Margaret Fuller**

8. Geneticists have their own favorite organisms of study. FTPE given a description of the experimenter and his organism name it.

A) Probably the best known, Mendel chose this plant because it was self pollinating, fast growing, and had a large number of offspring to observe.

Answer: **Sweet Pea Plant**

B) Thomas Hunt Morgan of Colombia University was the first geneticist to use these insects. It was through careful observation of their eyes that he discovered "sex linked" mutations.

Answer: **Drosophila Melanogaster or Fruit Fly**

C) Beadle and Tatum figured out the simplistic but crucial "one gene, one enzyme" theory using this fungus. Common on bread, it spends most of its life in a haploid state, making any mutations immediately observable.

Answer: **Neurospora**

9. FTPE, answer the following about the Mongol Empire

This grandson of Kublai Khan became emperor of China in 1259.

Answer: **Kublai Khan**

Kublai Khan established this dynasty, which was to last over 100 years.

Answer: **Yuan**

Kublai Khan established his capital in the city of Cambaluc. By what name do we know Cambaluc today?

Answer: **Beijing** (do not accept "Peking")

10. Atlanta Braves announcer Skip Caray doesn't even try to disguise his contempt for this city. FTSNOP answer the following about the city of Montreal:

1. Prevented by the Lachine Rapids from sailing up the St. Lawrence River far enough, in 1535 this French explorer reached the Island of Montreal by foot and found the Iroquois village of Hochelaga at the foot of Mount Royal.

Answer: Jacques **Cartier**

2. In the 1770's, fur traders in Montreal formed the North West Company as a rival to this, the dominant fur trading company in Canada.

Answer: the **Hudson's Bay** Company [accept Hudson Bay Company]

3. The world's fair called Expo 67 included the eye-catching U.S. Pavilion, designed in Buckminster Fuller in this distinctive shape.

Answer: **geodesic** dome

11. Answer the following about related works of literature FTPE.

Which Greek playwright wrote *Prometheus Bound*?

Answer: **Aeschylus**

Which British poet responded with the poem "Prometheus Unbound"?

Answer: **Percy Bysshe Shelley**

Which important British novel is subtitled "The Modern Prometheus"?

Answer: **Frankenstein**

12. 30-20-10, name the philosopher from clues.

30: The son of a watchmaker, Voltaire once wrote to him, "The desire to walk on all fours seizes one when one reads your work."

20: His *Discourse on the Origin of Inequality* posits that the apparent upward drive to civilization was really a downward drive to barbarism.

10: His most famous work, *The Social Contract*, states that people make a voluntary compact with government in order to protect their persons and property.

A: Jean-Jacques **Rousseau**

13. Given a war, name any year within that war FTPE.

Boer War.

Answer: **1899-1902**

Franco-Prussian War.

Answer: **1870-1871**

2nd Opium War.

Answer: **1856-1860**

14. Answer the following about phenomena involved with liquids FTPE.

This is the force that holds the molecules in a liquid together.

Answer: **cohesion**

This refers to forces of attraction between a liquid and adjoining matter, like the container.

Answer: **adhesion**

Whenever a liquid is surrounded by a tube, one of these forms. Its direction is determined by the balance between the liquid's cohesive and adhesive forces.

Answer: **meniscus**

15. FTPE, name these rap artists who have next to nothing to do with gangstas.

He bears a frightening resemblance to outfielder Derek Bell, produced De La Soul's 3 Feet High and Rising, and taught the Handsome Boy Modeling School with Dan "The Automator" Nakamura.

Answer: **Prince Paul**

Along with fellow West Coast rappers Dilated Peoples and the Black-Eyed Peas, they anchored the "Word of Mouth" tour in 2000. Their debut album, Quality Control, was a huge critical success and spawned the single "Concrete Schoolyard".

Answer: **Jurassic 5**

Part of the Native Tongues crew, their 1989 debut album, People's Instinctive Travels and the Paths of Rhythm, went gold. Members included Phife, Q-Tip, and Ali Shaheed Mohammed.

Answer: **A Tribe Called Quest**

16. FTP each, give the following scientific terms beginning with the letter "S".

A. This project is scanning the universe for artificially generated electromagnetic signals to find out if anyone is out there. Give either the 4 letter acronym or 4 word name.

Answer: SETI, or Search for Extraterrestrial Intelligence

B. This type of time is measured with respect to the stars rather than the Sun and one of these days is shorter than a solar day by nearly 4 minutes.

Answer: Sidereal

C. This device works by positioning a metal tip within a few atomic diameters of a surface and measuring the amount of current generated when electrons leap across the gap. IBM researchers used one of these devices to spell out the letters IBM with 35 atoms.

Answer: Scanning Tunneling Microscope

17. Given names and descriptions of three similar operas, tell who composed each one FTPE.

Orfeo, considered the first true operatic masterpiece.

Answer: **Claudio Monteverdi**

Orpheus and Eurydice, the most serious and melodramatic of the Orpheus operas.

Answer: **Christoph Gluck**

Orpheus in the Underworld, the comic opera that introduced the "Can-Can".

Answer: **Jacques Offenbach**

18. Identify these related political science terms FTPE.

This, from the Latin for "I forbid", refers to the president's constitutionally granted power to turn down acts of Congress.

Answer: **veto**

This type of veto, which cannot be overridden, occurs if the president elects to hold a bill for ten days while Congress is in recess.

Answer: **pocket veto**

The Supreme Court ruled this type of veto, introduced in 1996, unconstitutional.

Answer: **line-item veto**

19. Name these characters from Ibsen's A Doll House on descriptions FTPE.

The main character, she's affectionate, flighty, and immature.

Answer: **Nora Helmer**

Nora's husband, he's a bank manager whose life Nora saved by her fraud.

Answer: **Torvald Helmer**

This friend of the Helmers, who is in love with Nora, reveals his impending death via a calling card with a black cross.

Answer: **Dr. Rank**

20. F5PE, and a bonus 5 for all correct, put these five events from the civil rights movement in chronological order, from first to last: A.) President Johnson signs the Civil Rights Act; B.) the Montgomery Bus Boycott begins; C.) Martin Luther King writes the "Letter from the Birmingham Jail"; D.) The Brown v. Board of Education I decision is handed down; and E.) The SCLC is formed.

Answer 1: **D.) Brown decision (1954)**; 2: **B.) Bus Boycott (1955)**; 3: **E.) SCLC formed (1957)**; 4: **C.) King letter (1963)**; 5: **A.) Civil Rights Act (1964)**

21. FTSNOP, answer these questions about baseball and its origins.

5 Points. Where is the Baseball Hall of Fame located?

Answer: Cooperstown, NY

10 Points. This man, thanks to a letter to an editor from his nephew, is wrongly, but often, credited with inventing baseball.

Answer: Abner Doubleday

15 Points. This man is believed to have first recorded a set of rules for baseball in 1842, while leading the Knickerbocker Base Ball Club.

Answer: Alexander Cartwright

22. I'll name four food items. FTPE, you tell me which vitamin they're all an abundant source of.

Oranges, strawberries, limes, and potatoes.

Answer: **Vitamin C**

Liver, egg yolk, carrots, and fish.

Answer: **Vitamin A**

Tomatoes, eggs, soybean oil, and liver

Answer: **Vitamin K**