

8th annual Juan Carlos Viscerra Memorial Tournament

Round 4

Swarthmore: Questions by Benjamin Schak

TOSSUPS

1. Half a month after Second Bull Run, Union forces surrendered to Jackson at Harpers Ferry, while McClellan moved his troops up the Potomac. The next day, 16th of September, Jackson's and Walker's divisions met with Lee's troops in Maryland, and a Union division crossed this battle's eponymous creek. Then, on the 17th, the war's most bloody fighting lasted all day, ending Lee's first incursion into Union territory. FTP, name this Civil War battle near Sharpsburg, Maryland.

Answer: Antietam (accept Sharpsburg until mentioned)

2. It is part of a trilogy which includes "Life in Transformation" and "War Life." Set to a continuous soundtrack, it alternates between views of calm balanced nature and modern urban life. This Godfrey Reggio film is made without words, except for a repetitive solo bass part, and centered around a three-line Hopi prophecy. FTP, name this film, noted for its Philip Glass soundtrack.

Answer: Koyaanisqatsi or Life Out of Balance

3. In "The Frogs," Aristophanes wrote, "the full-bodied coins that are the pride of Athens are never used while the mean brass coins pass hand to hand," and John Hales wrote of a coinage law, "Everything will go where it is most esteemed, and therefore our treasure went over in heaps." Despite these historic examples, the name of a 16th-century merchant became attached to, , name this law, first rendered as "bad coinage drives out good."

Answer: Gresham's Law

4. Although he planned to be a doctor, he quit medical school when he joined the French resistance during World War II and joined the Conservatoire National, from which he graduated with the top flute prize. His flutes only had D-flat and C foots, no B foot, which he called an "American contraption," and many were golden-colored. FTP, name this late French flautist.

Answer: Jean Pierre Rampal

5. A student of Ernest Rutherford, he devoted his career studying the structure of atoms. He concluded that the atomic number is equal to the charge on the nucleus; thus, his version of the periodic table was arranged by atomic number instead of atomic mass. This revision of Mendeleyev's table resolved many problems. FTP, identify this English physicist, whose life was cut short in the Gallipoli campaign of World War I.

Answer: Henry Moseley

6. Plans for it were first made at a 1950 UNESCO meeting. This group produced the first

W and Z particles at the Super Proton Synchrotron, and still makes Standard Model verifications at the Large Electron-Positron Collider. Construction is currently underway for a new Large Hadron Collider. Another invention of this organization's for scientific communication was the World Wide Web. FTP, name this European physics center, located between France and Switzerland.

Answer: Conseil European pour la Recherche Nucleaire

7. In this book, dedicated to Theophilus, Paul is hailed as a god in Malta, Peter appears defiantly before a court twice, is flogged, and is broken from a jail with others by angels. Matthias is elected to replace Judas and Ananias and Sapphila die for lying to the Holy Spirit about the value of some land in this book written by, but not following, Luke. FTP, name this fifth book of the New Testament, which describes the lives of Jesus's disciples after the Resurrection.

Answer: Acts of the Apostles (accept Luke II: Electric Boogaloo)

8. His only symphony, written in C major, was first performed in 1935. Though best known for his vocal music, he wrote "Jeux d'Enfants" for the piano. Only after Guinaud changed his most famous piece, replacing spoken lines with recitatives (pron.: reh-si-tuh-TEEVZ), did audiences appreciate it. FTP, name this French composer of "The Pearl Fishers," "L'Arlesienne," and "Carmen."

Answer: Georges Bizet

9. Once expensive, it is now found in fission byproducts in ready supply. Two German scientists thought they had discovered it in the 1920's, and named it masurium, but they were wrong, and it was really discovered in Italy in 1937. The spectrum of this silverish metal appears in some stars, and it resembles rhenium chemically. FTP, name element 38, the lightest with no stable isotopes.

Answer: technetium or Tc

10. According to myth, this civilization was founded when Manco Capac and his siblings emerged from underground caves. All political power was said to be derived from the sun god Inti, and their empire, known to them as Tahuantisuyu, was divided into four suyus. They constructed many cities, such as the fortress of Sacsahuaman, and spoke the language Quechua. Lasting until the early 16th century, at its height it ruled over 9 million people. FTP, name this empire, famous for building the cities of Cusco and Macchu Picchu, that was conquered by Francisco Pizarro.

Answer: Incan Empire

11. The story, like the Decameron, begins with a group of people sitting sharing stories. One of them, Douglas, has a manuscript written by a governess at an estate named Bly, which he proceeds to share with the group. The governess, upon arriving at the estate, learns that she has been hired to replace the previous governess, who died. Aside from the governess, the only other people at the estate are the housekeeper, Mrs. Grose, and the children, Flora and Miles. However, the children begin to claim that they see the ghosts of Miss Jessel, the former governess, and Peter Quint, a former valet. FTP, name this classic ghost story by Henry James.

Answer: "The Turn of the Screw"

12. Despite a head wound that eventually left him completely blind, this writer continued to write, teach, and, most impressive, give speeches, which he did completely from memory. He often found himself involved in politics, including having the post of Inspector of Poultry and Rabbits in the Public Markets under Juan Peron, a post he immediately resigned. In his stories, he often returns to certain themes, such as duels, writing, and labyrinths, the latter being the title of one of his short story collections. FTP, name this Argentine author of the collection "Ficciones" and the story "The Garden of Forking Paths."

Answer: Jorge Luis Borges

13. Born in Georgia, he wrote his most famous book in 1932. It, like most of his other works, was set in the South, and his works often focus on farmers and Southern rural life. One of his books, "You Have Seen Their Faces," was done in conjunction with his wife, Margaret Bourke-White, the photographer. Later in his life, he wrote some screenplays and adapted some of his novels for film, including "God's Little Acre" and his novel about the sharecropper Jeeter Lester. FTP, name the author of "Tobacco Road."

Answer: Erskine Caldwell

14. Beginning his education in his home country, this novelist and poet completed his studies in London, and began working for the BBC. His first novel, written soon after, was a response to what he saw as inaccurate characterization of his home country by British authors. Later novels, such as "No Longer at Ease" and "A Man of the People," continued this trend, though his later novels focused on the internal conflicts in Nigeria. Hailed as one of the greatest authors to write about colonization and decolonization, his most famous novel deals with the ways in which Igbo society was disrupted by Europeans. FTP, name this author of "Things Fall Apart."

Answer: Chinua Achebe

15. The first title character and the second title character form a partnership to con some townspeople out of a bounty. They get away with it, but the first character leaves the second in the desert. When the second tries to get revenge, the two of them stumble upon a dying man, who tells each of them part of the location of a stash of money. While searching for the money, the two run into the third title character, who is in charge of a prison camp, and he forces the other two to lead him to the treasure. FTP, name this spaghetti western directed by Sergio Leone and starring Eli Wallach, Lee van Cleef, and Clint Eastwood.

Answer: The Good, the Bad, and the Ugly

16. Gerald Gardner, of the Isle of Man, helped revive this religion, and claimed to turn back Germany's attack on England. Worship services are scheduled in harmony with the moon's phases, and worship sites are usually constructed anew for each service. The principal ethical rule says, "An it harm none, do what ye will." FTP, name this pagan religion, the most well-known modern form of witchcraft.

Answer: Wicca or The Craft (prompt on "witchcraft")

17. This philosopher spent his last decade vilifying Rousseau. Although he said that his principles "would produce almost a total alteration in philosophy" he arguing for the predictability of human nature, his first major work, "fell dead-born from the press" despite his own anonymous positive review. Much after his failed Treatise of Human Nature, he published the Enquiry Concerning Human Understanding as a replacement. FTP, name this Scottish philosopher.

Answer: David **Hume**

18. Using this data structure, one can write a sorting algorithm that sorts in place in $O(n \log n)$ [big O of $n \log n$] time. This structure is an array object that can be described as a complete binary tree in which each node of the tree corresponds to an element of the array that stores the value in the node. FTP, name this data structure, which can also be used as a priority queue.

Answer: binary **heap**

19. This man was communications director for Elizabeth Dole's presidential candidacy, and spokesman for Sen. Domenici and the House Ways & Means Committee. It was his idea to make fun of Al Gore's famous "iced tea defense" by serving reporters iced tea on Bush campaign flights. FTP, name President Bush's press secretary.

Answer: Ari **Fleischer**

20. First discovered in the 12th century, this group of nine islands was an international whaling center in the 17th and 18th centuries. Today two countries mine coal there despite a maritime border dispute. All current settlements are basically company towns, including the capital Longyearbyen, on the largest island, Spitsbergen. FTP, name this nine-island Arctic Norwegian group.

Answer: **Svalbard** (accept **Spitsbergen**, an alternate name, until "Spitsbergen")

21. This country has forbidden its maidens from sex for the next five years, with the penalty being one cow. Young women will wear symbolic hair-tassels of chastity, called umcwasho, and may not wear pants or mini-skirts. King Mswati III (pron: MSWAH-tee) handed down the edict to try to curb AIDS, which infects 25% of the adult population of, FTP, this south African country.

Answer: **Swaziland**

22. Discovered when a gold-seeking daredevil pilot got bogged down in a marsh at the top of the Auyan-Tepui (pron: ow-YAN teh-PWEE) this landmark is inaccessible by foot, and the original pilot's plane was only removed in 1970, still in good condition. FTP, name this Orinoco waterfall, in the Guyana Highlands of Venezuela, the world's tallest uninterrupted.

Answer: **Angel** Falls

23. Born the ninth child of a commoner, her father was too lazy to register her birth immediately, so it is still unknown where she was born. As a teen in World War I, she worked in a military hospital. After the war, she was pursued by the Prince of Serbia and

noted philanderer James Stuart, who was sent to Oklahoma while his employer, the Duke of York, courted her. Their wedding was not broadcast for fear that people might disrespectfully listen with their hats on. FTP, name this queen who recently bounced a 4 million pound check and called her granddaughter-in-law, Diana, a "silly woman."

Answer: The Queen Mother Elizabeth

24. This man was schooled in India and England, where he joined a band called Smile. A fan of the opera, his duo "Barcelona," performed with Montserrat Caballe, was the theme of the 1992 summer Olympics. Before his death, he filmed two videos in heavy makeup, leading many to believe he was diseased. FTP, name this man, born Farookh Bulsara in Zanzibar, who, before dying of AIDS, led the band Queen.

Answer: Freddie Mercury (accept Farookh Bulsara before "Farookh")

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Boni

1. FTPE, name these apparatus from behaviorist psychology.

a) This is an enclosed space in which a lab animal is presented with an object whose manipulation creates a stimulus.

Answer: Skinner box

b) This is a path from a starting box to a goal box through which a lab animal scurries to get its food.

Answer: runway

c) This is a three-armed path between boxes, through which a lab animal scurries. Stimuli may be placed in either arm of the path.

Answer: T-maze

2. 10-5: Name the Japanese historical period from dates F10 or from a description F5.

a) 10 - 1989-present.

5 - Began with the accession of the current emperor, Akihito.

Answer: Heisei

b) 10 - 1603-1867.

5 - Began when Tokugawa Ieyasu became shogun.

Answer: Edo

c) 10 - 1868-1912.

5 - Began with the enthronement of Emperor Mutsuhito, it is sometimes referred to as a "restoration."

Answer: Meiji

3. FTPE, given how an apostle died, name him.

a) Hanged himself.

Answer: **Judas** Iscariot

b) Crucified upside-down.

Answer: **Peter**

c) Run through with a lance in the East Indies.

Answer: **Thomas**

4. 30-20-10. Name the painting.

30 - The model's surname meant "jocund," possibly leading to a visual pun.

20 - Marcel Duchamp did a mustachioed reproduction of this called "L.H.O.O.Q." in 1919, not too long before Nat King Cole sang a song with the same title as this painting.

10 - This da Vinci painting, now in the Louvre, was stolen in 1911, but recovered.

Answer: **Mona Lisa**

5. Identify the following parts of the pre-mRNA molecule, 15 points each:

1. It is added at the beginning of the mRNA strand to prevent degradation by hydrolytic enzymes. It is part of the molecule is this which serves as the attachment site for ribosomes during translation and is composed of a guanine nucleotide enhanced by a triphosphate.

Answer: **5' Cap** (said five prime cap)

2. Added to the end of the mRNA strand also to prevent degradation, this region, composed of 30 to 200 adenine molecules, facilitates the mRNA's exit from the nucleus.

Answer: **Poly-A Tail** (accept poly-adenine tail)

6. FTPE, answer these string theory questions.

a) This proposed property says that every fermion has a corresponding boson, and vice versa.

Answer: **supersymmetry**

b) String theory predicts that this force-carrying particle has zero mass and two units of spin.

Answer: **graviton**

c) This mathematical theory, generalizing cohomology from differential forms to vector bundles may have application in D-brane charge classification.

Answer: **K-Theory**

7. FTSNOP, give the Latin phrases on the Great Seal of the United States.

a) 5 - This motto on the obverse alludes to the union of the U.S. from the several states.

Answer: **"E Pluribus Unum"**

b) 10 - This motto, from Virgil, appearing above the Eye of Providence on the reverse, refers to Providence when it says "it favors [our] undertakings."

Answer: **"Annuit Coeptis"**

c) 10 - This motto, also from Virgil, appears below the truncated pyramid on the reverse.

Answer: **"Novus Ordo Seclorum"**

d) 5 - These letters appear on the reverse's truncated pyramid.

Answer: **"MDCCLXXVI"** prompt on "1776 in Roman numerals"

8. FTPE, answer these questions about a certain part of the human body.

a) This can hold between a pint and a liter before involuntarily expelling its contents.

Answer: **bladder**

b) This is the reflexive urge to urinate, experienced when the bladder wall expands.

Answer: **micturition**

c) After drinking too much wine at a state dinner and not excusing himself to use the toilet, this man developed a bladder infection and died days later.

Answer: Tycho **Brahe**

9. Name the television game shows:

1. An MTV show, the guest has two dates and eventually gets rid of one of them

Answer: **Dismissed**

2. A UPN show, a woman selects four men from 100 prospects. The finalists are actually chained to her wrists and ankles for a week before she selects her dream date.

Answer: **Fifth Wheel**

3. A WB show, it simultaneously pits four suitors against one another for the hand of one lucky single on a group date.

Answer: **ElimiDate**

10. For each book about war, give the author F5P, and the war the book is about for another 5P.

a) "Dispatches"

Answer: Michael **Herr**, **Vietnam** War

b) "Catch-22"

Answer: Joseph **Heller**, **World War II**

c) "The Guns of August"

Answer: Barbara **Tuchman**, **World War I**

11. Give the authors of these works, all of which have had movies based on them, FTPE.

a) "One Flew Over the Cuckoo's Nest"

Answer: Ken **Kesey**

b) "Do Androids Dream of Electric Sheep?"

Answer: Philip K. **Dick** (Editor's note: "Bladerunner" is the movie.)

c) "The Godfather"

Answer: Mario **Puзо**

12. Identify the author from works, 30-20-10.

30 - "Burmese Days," "Keep the Apidastra Flying."

20 - "Down and Out in Paris and London," "Homage to Catalonia."

10 - "Animal Farm," "1984."

Answer: George **Orwell**

13. Give the Shakespeare play, given characters, FTPE.

a) Stephano, Trinculo, Miranda

Answer: The **Tempest**

b) Hero, Claudio, Beatrice

Answer: **Much Ado About Nothing**

c) Viola, Olivia, Sebastian

Answer: Twelfth Night

14. Given a Revolutionary War battle, give the year in which it was fought, FTPE, or F5P if within one year in either direction.

a) Bunker Hill Answer: 1775

b) Saratoga Answer: 1777

c) Trenton Answer: 1776

15. FTP, name the operatic work.

a) After commissioning a castle, the head god has problems paying for it, and has to steal a cursed object from a dwarf to pay the giant builders.

Answer: Die Rheingold or The Rhine-Gold (prompt on "The Ring of the Nibelung" or "Der Ring des Nibelung")

b) The chief god gets mad at Siegfried, and tells Brunhild to kill him. But she saves him and is imprisoned behind a ring of fire.

Answer: Die Walkuerie or The Valkyrie (prompt as above)

c) This is the four-part cycle of Wagner operas that contains those two, and "Siegfried" and "Die Gotterdaemering." It was based on ancient epics, and premiered at Bayreuth.

Answer: The Ring of the Nibelung or Der Ring des Nibelung

16. FTPE, name these places in Europe.

a) This most important Scottish river enters its eponymous firth at Glasgow.

Answer: Clyde

b) This region contains the port of Brindisi. Because of its position at the eastern tip of Italy, it was a popular embarkation point for crusaders.

Answer: Apulia

c) The Lettish natives of this region lived under successive German, Polish, Swedish, and (after the Great Northern War) Russian regimes until the 20th century. Although Russia ceded it to Germany at the Treaty of Brest-Litovsk, parts of it fell to The Soviet Union, Poland, Russia, and all three Baltic States during the 20th century.

Answer: Livonia

17. FTPE, name these past U.S. Representatives to the United Nations.

a) After being made Representative in gratitude from the Democratic Party, this man vigorously opposed letting Red China enter the UN, and presented evidence of Soviet missiles in Cuba.

Answer: Adlai E. Stevenson

b) This Nixon appointee was criticized for his lack of foreign policy experience. Even as he led a futile effort to keep Taiwan in the UN, Kissinger was secretly negotiating with mainland China.

Answer: George H.W. Bush (keep prompting until distinct from Dubya)

c) This Ford appointee was Ambassador to India under Nixon and Ford before being appointed to his UN post in 1975. He held it only briefly, unsuccessfully seeking peace in Timor, before being elected senator.

Answer: Daniel Patrick **Moynihan**

18. FTPE, answer these questions on Haitian history.

a) The first attempt, by black slaves and white planters at a Haitian revolution was put down by this commissioner, but he had to emancipate Haiti's slaves after a landowners' revolt.

Answer: Leger Felicite **Sonthonax**

b) This medic leadership skills propelled him up through military ranks. Eventually, his decision to abandon Spain and his associates Jean-Francois and Biassou, and to return to the French side, secured Haiti for France.

Answer: Toussaint **L'Ouverture**

c) After Napoleon's brother-in-law imprisoned L'Ouverture, this ruthless general deserted from the French, and led the rebel army to victory with British help. Legend has it that he removed the white stripe from the French flag to create the Haitian flag, to symbolize the removal of whites from Haiti.

Answer: Jean-Jacques **Dessalines**

19. FTPE, given the reaction to the World Trade Center bombings, name the speaker.

a) This composer, who appears on the cover of "Sgt. Pepper's Lonely Hearts Club Band," said that the bombings were the "greatest work of art that is possible in the whole cosmos."

Answer: Karlheinz **Stockhausen**

b) This Italian prime minister said, "We should be conscious of the superiority of our civilization, which guarantees respect for human, political, and religious rights. This respect certainly does not exist in the Islamic countries."

Answer: Silvio **Berlusconi**

20. FTPE, name the tall buildings.

a) The high office ceilings in this white Chicago building make it the second-tallest in Chicago, despite only having 80 stories.

Answer: **Amoco** Building

b) Constructed in 1932, this 66-story building is the tallest building in Downtown Manhattan.

Answer: **American International** Building (accept **Cities Services** Building, its original name)

c) This United Arab Emirates luxury hotel occupies its own island. The tallest hotel in the world, its prices are in the five figures range.

Answer: **Burj al-Arab**

21. Name the following American Lakes:

1. Oval in shape, this lake contains Ometepe Island and is fed by the Tipitapa river.

Answer: Lake **Nicaragua**

2. Fed by the Catatumbo River, it basin supplies two-thirds of its nation's total petroleum output.

Answer: Lake **Maracaibo**

3. Fed by its namesake, Saskatchewan, and Red rivers it is drained by the Nelson River

and contains Hecla, Deer, and Black islands.

Answer: Lake **Winnipeg**

22. FTSNOP, name the mayoral candidates.

a) F5PE, name the two main Democratic and one Republican candidates in New York City. Of the Democrats, one is the Bronx Borough President, and the other is a Public Advocate. The Republican is a media magnate.

Answer: Mark **Green**, Fernando **Ferrer**, and Michael **Bloomberg**

b) F5P, name the winner of the Los Angeles mayoral election, who beat Antonio Villaraigosa in an all-Democrat general election.

Answer: James Kenneth **Hahn**

c) FTP, name either of the finalists for Minneapolis mayor. One is the incumbent, while the other is a self-styled reformist of vague profession who earned more convention and primary votes.

Answer: Sharon **Sayles Belton** or R.T. **Rybak**

23. FTPE, name these movies that have been banned in Finland.

a) Although this 1962 Frank Sinatra Cold War film won an Oscar for Best Film, it was banned for 27 years in Finland.

Answer: The **Manchurian Candidate**

b) This Gregory Peck movie was remade in 1991 by Martin Scorsese, with Gregory Peck playing a different role. In both versions, a small-town lawyer is terrorized by a man he testified against.

Answer: **Cape Fear**

c) This movie was dedicated to the police officers of San Francisco who gave their lives in the line of duty. It features a plainclothes police officer and his new partner tracking down a serial sniper in San Francisco.

Answer: **Dirty Harry**

24. FTPE, name these Jewish fast days that are not Yom Kippur.

a) This fast commemorates the destructions of both Temples, the pessimistic report of the spies in Numbers, the end of the Bar Kochba rebellion, the plowing of the Temple area, the Spanish expulsion, and World War I, to name a few.

Answer: **Tisha b'Av** or **Ninth of Av**

b) This fast falls the day before Purim and commemorates the fast of a biblical queen.

Answer: **Fast of Esther** (prompt on 13th of Adar)

c) This fast falls the day before Passover, and serves as a reminder that the Jews were saved from the Tenth Plague.

Answer: **Fast of the Firstborn** (prompt on 14th of Nissan)