

Round 7

JCV7

Questions by Swarthmore A (Peter Austin, Arcadia Falcone, Jonah Volk and Adrian Packel)

1. Legend has it that at one time this general forced his five-year-old son to swear undying hatred toward everything Roman. During the First Punic War, he was assigned the command of Sicily against the invading Romans and succeeded in holding them at bay until the end of the war. In 237 B.C. he began the conquest of Spain, though the second war with Rome that followed was waged principally by his two sons. FTP, name this able general of Carthage, surpassed only by his son Hannibal.

A: **Hamilcar** Barca

2. His 4th Piano Concerto incorporates the then-popular song "The Man Who Broke the Bank at Monte Carlo." A child prodigy, he made his debut at age eleven, and Liszt considered him the greatest extemporizor alive. He wrote thirteen operas, the most well-known of which is *Samson and Delilah*. A skilled organist, his third symphony, dedicated to the memory of Liszt, features that instrument prominently. He also wrote symphonic poems such as *Le rouet d'Omphale* and *Danse Macabre*. FTP, name this composer most famous for a work he would not permit to be performed – the *Carnival of the Animals*.

A: Charles Camille **Saint-Saëns**

3. Bordered on the northwest by the Valle d'Aosta, this region contains the provinces of Novara and Alessandria. Bordered on the south by Liguria, it is drained by the Po river and is one of Italy's prime agricultural regions. It is bordered on the north by Switzerland, the west by France and on the east by Lombardy. With its capital at Turin it is also a major manufacturing region. FTP, name this region of Italy the nucleus of the united Italian state in the 19th century.

A: **Piedmont**

4. A theorem by Ken Ribet in 1986. A conjecture by Frey in 1985. The methods of Vistor Kolyvagin and Barry Mazur. Galois representations. Modular forms. Deformation theory. Elliptic curves. The Taniyama-Shimura Conjecture. FTP, all of these parts of mathematics helped Andrew Wiles prove this famous mathematical question, which states that when x , y , z , and n are all integers and $x^n + y^n = z^n$, n can only equal 2.

Answer: **Fermat's Last** Theorem

5. Its Indian phase is known as the Third Carnatic War and it confirmed British dominance of the subcontinent. The Prussians won victories at Rossbach, Leuthen and Zorndorf, but Prussia was attacked from all sides and only British support and the death of the Russian czarina saved Frederick the Great and allowed him to retain the province of Silesia. FTP, name this European conflict that marked the rise of Prussia as a great power, known in the United States as the French and Indian War.

Answer: **Seven Years'** War

Round 7

6. As a soldier in World War II, he sent letters to a friend criticizing "the man with the mustaches", which earned him eight years in various prison camps. While he is lionized in the West as one of the foremost Soviet dissidents, the attitude toward him among liberal Russians is ambivalent at best, due to his isolationist and Slavophilic tendencies. His experiences doing forced research in a prison laboratory informed his novel *The First Circle*, while his treatment for cancer inspired *Cancer Ward*. FTP name this Russian author, who made the Soviet prison camps known to the world in *The Gulag Archipelago* and *One Day in the Life of Ivan Denisovich*.

Answer: Aleksandr Isayevich **Solzhenitsyn**

7. In 1936, influenced by the Great Depression, he painted *Subway (Subterranean Fantasy)* which emphasized the claustrophobia and alienation of the figures depicted. By 1944, however, he had moved on to more surrealist forms with *Slow Swirl by the Edge of the Sea*. By 1949, he had developed his distinct style, with which he painted a chapel in Houston that was named for him after he committed suicide in 1970. FTP, name this Latvian-born American painter, most famous for color-field works such as *Green and Tangerine on Red*.

A: Mark **Rothko**

8. He studied military theory at Staff College in England and law at Tel Aviv University, both after the 1956 Suez Crisis, in which he captured the strategic Mitla Pass. After graduating he was promoted to major general, and recaptured the Mitla Pass during the Six-Day War. He resigned from the army in 1973 and entered politics, serving in the administrations of Yitzhak Rabin and Menachem Begin, under whom he orchestrated the invasion of Lebanon in 1982. FTP, name this co-founder of the Likud Party who will challenge Ehud Barak in the upcoming Israeli elections.

Answer: Ariel **Sharon**

9. George Goethals was the last chief engineer of the project, and it was under him that most of the construction actually took place, though John Stevens built the infrastructure that made it possible. The terrain presented numerous difficulties, such as the floods of the Chagres River. Construction was done primarily with Bucyrus steam shovels; both yellow fever and malaria had to be controlled before construction could begin earnest. When Theodore Roosevelt visited the construction site it was the first trip abroad by a sitting president. FTP, name this canal, completed in 1914.

Answer: **Panama** Canal

10. Some hermaphroditic members of this phylum engage in penis fencing, where the winner impregnates the loser. Only one class, Turbellaria, is free-living, though it is considered the ancestor of the other three classes. They possess an excretory system in the form of proto-nephridia, however, they lack a circulatory system or a coelom. Digestion takes place in a pharyngeal cavity and they are the simplest organisms to possess a brain. FTP, name this phylum, which includes tapeworms and flukes, commonly called flatworms.

Answer: **Platyhelminthes** (prompt on flatworms until the last word)

Round 7

11. It follows in the tradition of Lycidas, of pastoral elegies written on the death of poet. This poem is different from its predecessor, however, in that both the author and the subject are first-rate poets. The Spenserian stanza it uses is the same utilized by the subject in his poem "Eve of St. Agnes". It does not speak of the dead poet by name, but instead masks the tribute in a classical Greek guise. FTP identify this poem, written by Percy Bysshe Shelley on the death of John Keats.

Answer: **Adonais**

12. In Sri Lanka, he is known as Isvara, and he early on took on the aspects of the Vedic god Rudra. He appears as Mahayogin, or the great Yogi, and as Natatraja, or King of the Dance, in his benign forms, and his wife is either Durga or Parvati. Mahakala ("Death") and Urga ("the Violent One") are his destructive forms. FTP, name this Hindu deity, commonly thought of the destroyer of the universe, forming a triad with Brahman and Vishnu.

A: **Shiva**

13. After leaving her previously most high-profile job, she joined the law firm of Brownstein, Hyatt, Farber, and Strickland, and specialized in business regulation and environmental law. She was in the Department of Agriculture from 1984 to 1985 and the Department of the Interior from 1985 to 1987 where she worked on a report regarding the Arctic National Wildlife Refuge. From 1991 to 1999 while she was a state attorney general she helped develop self-audit laws and became hated by environmentalists. FTP, name this former Colorado attorney general, the new Secretary of the Interior.

Answer: Gale **Norton**

14. This movie revolves around a pair of newlyweds who end up on the run from gangsters who want their cocaine back. The couple eventually travels from Detroit to Mexico, guided by their guardian angel, Elvis. Patricia Arquette and Christian Slater star in this movie. FTP, name this movie directed by Tony Scott and written by Quentin Tarantino.

Answer: **True Romance**

15. T.S. Eliot called it "one of the stupidest and most uninspired plays ever written". Its subject is historical, but in form it is more of a revenge tragedy. Modern critics have been interested by the portrayal of the Moor, Aaron. It is possibly the most brutally violent of Shakespeare's plays, including a rape and mutilation which plays out the legend of Philomel; the attackers, aware of that story, cut off the girl's hands to render it even more difficult for her to identify her violators. FTP identify this early play of Shakespeare, in which the Queen of the Goths and her family ravage the life of the good Roman of the title.

A: **Titus Andronicus**

Round 7

16. His son, who shared his name, married the Byzantine Princess Theophano, and his grandson, also of the same name, would have married Byzantine Emperor Basil II's niece Zoe, but the grandson died too soon. Son of German king Henry I, he became ruler of northern Italy by defeating Berengar II. Crowned in 962, he successfully deposed Pope John XII and installed Leo VIII in his place. FTP, name this Holy Roman Emperor who defeated the Magyars at the Battle of Lechfeld in 955.

Answer: **Otto I**

17. He took the world's first color photograph and proved that all colors can be produced from primary colors, and he also first posited that Saturn's rings were made up of small particles. This stimulated his interest in gases, and he developed a kinetic theory of gases which was later refined by Boltzmann. However, he is most well-known for developing his electromagnetic theory of light. FTP, name this Scottish theoretical physicist of the 19th century whose name survives in his equations on electromagnetic phenomena and his demon?

A: James Clerk **Maxwell**

18. He appeared as the scientist Lacombe in Spielberg's *Close Encounters of the Third Kind*, but he is better known as a director. In a reaction against studio productions he attempted to place a personal stamp on his films, others of which included *Jules and Jim*, *The Wild Child*, *The Story of Adele H* and *The Last Metro*. The first film he directed, featuring a semiautobiographical protagonist, was *400 Blows*. FTP, name this French director, who won an Oscar for *Day for Night*.

A: François **Truffaut**

19. A native of Stuttgart, while in seminary at Tübingen he befriended Friedrich Hölderlin and Friedrich von Schelling. In 1801 he began lecturing at Jena, though when the French took that city in 1806, he fled. From 1812 to 1816, he published his *Science of Logic*; other works include *The Philosophy of Right* and *The Phenomenology of Mind*. He argued "what is rational is real, and what is real is rational" and sought to develop a universal philosophy, and to do this he developed the dialectic. FTP, name this German philosopher.

A: Georg Wilhelm Friedrich **Hegel**

20. In 1917, the general secretary of the Socialist Party of the United States sent a letter to 15,000 men eligible for the draft but not yet drafted, urging resistance to the draft, calling it a violation of the 13th Amendment. Convicted under the Espionage Act of 1917 for interfering with U.S. War Effort, the case made its way to the Supreme Court where Oliver Wendell Holmes, Jr., wrote for a unanimous court. FTP, name this court case that established the "clear and present danger" doctrine for suppressing speech.

A: **Schenck** v. United States

Round 7

21. Its walls were said to have been built by Amphion and Zethus. Led by Epaminondas and its Sacred Band – a regiment composed entirely of homosexual men and their lovers – it dominated Greece for brief time between its victory at the battle of Leuctra in 371 BC and its defeat at Mantinea in 362 BC. When it rebelled against Alexander the Great in 335 BC he leveled the city except for the temples and the house of Pindar, and sold the remaining population into slavery. The birthplace of Herakles, it was founded by Cadmus. FTP, name this Greek city, home of Laius, Jocasta and Oedipus.

A: **Thebes**

22. Ethane with two atoms of this element substituting for two hydrogens is a constituent of anti-knock fluid in leaded gasoline. Commonly synthesized as a by-product in the production of table salt, it was discovered in 1826 by Antoine Balard. Coupled with a methyl radical it can be an ozone-destroying pollutant. FTP, name this halogen, a reddish-brown liquid just below chlorine on the periodical table.

Answer: **Bromine**

23. A supporter of Sulla against Marius, he built his fortune off of goods confiscated from Marius's supporters. In Rome, he ran a private fire company, refusing to provide service until the fire victim signed up with his insurance company. As praetor in 71 BC he suppressed the revolt of Spartacus and was elected consul in 70 BC and again in 55 BC. FTP, name this man, killed at the Battle of Carrhae in 53 BC, who formed the first triumvirate with Julius Caesar and Pompey the Great.

Answer: Marcus Licinius **Crassus**

24. From the age of nine she published a weekly family newspaper, the Hyde Park Gate News, in which her first short stories appeared. The death of her mother when she was thirteen halted publication, but as an adult she and her husband published their own and others' works out of a home printing press. Her first book, The Voyage Out, was published in 1915, but it was in the 1922 novel Jacob's Room that her stream-of-consciousness style became fully developed. FTP name this modernist author, center of the Bloomsbury group and author of To The Lighthouse and Mrs. Dalloway.

Answer: Virginia **Woolf**

25. The son of the Titan Iapetus and either the nymph Clymene or the Titaness Themis, he was the brother of Atlas. He and another brother were tasked with designing the animals and man, but his brother gave animals so many physical attributes that he left the task of creating man superior to the animals to him. The father of the Greek equivalent of Noah, Deucalion, he tricked Zeus into picking the bones of the ox as his part of the sacrifice. FTP, name this Titan, most famous for giving man the gift of fire.

A: **Prometheus**

Round 7

26. Expelled from Oxford for supporting the theories of David Hume, he was influenced by the French philosopher François Quesnay and Anne Turgot. In 1763 he resigned his position as professor of logic and moral philosophy at the University of Glasgow to become the tutor of Henry Scott, whom he accompanied on a tour of France, where he met leading physiocrats, then the leading school of economic thought. During his tenure at Glasgow he had written his second-most famous work, *Theory of Moral Sentiments*. FTP, name this Scot, who in 1776 published *The Wealth of Nations*.

A: Adam **Smith**

Round 7

JCV7

Boni by Swarthmore A

1. Identify these composers who could charitably be described as avante-garde, 10-15-5
a. His early works, such as *Verklärte Nacht*, are in the late Romantic style but later he developed the 12-tone system, producing such works as *Moses and Aaron* and *Pierrot Lumaire*.

A: Arnold **Schönberg**

b. One of Schoenberg's two principal students, he took the 12-tone theory to ridiculous extremes. Allied occupation troops did the world a favor in 1945 by shooting him when they thought his cigarette lighter was a gun.

A: Anton **Webern**

c. He also studied with Schoenberg but pioneered the use of silence in 4'33" and randomness in *Music of Changes*. Whether either is music is debatable.

A: John **Cage**

2. 30-20-10, identify the philosopher from works.

30 – Botany, The Village Sage

20 – Emile, The New Heloise

10 – Confessions

A: Jean-Jacques **Rousseau**

3. Answer these questions about the Songhai Empire, FTPE.

a. This city was the capital of the Songhai Empire after the 11th century.

ANSWER: **Gao**

b. This ruler of the empire in the late 15th century greatly expanded the empire's power by taking the cities of Timbuktu and Jenne and repulsing foreign invaders.

ANSWER: Sonni **Ali** or Sonni **Ali** Ber or **Ali** the Great

c. Name the final ruler of the Songhai Empire, who was defeated in 1591 by the Moroccans.

ANSWER: **Issihak II**

4. Given a description, name the following physical effects, FTPE.

Light shining on a metal releases an electron.

A: **photoelectric** effect

When a crystal is subjected to mechanical pressure, an electrical potential appears across certain faces of the crystal.

A: **piezoelectric** effect

The spectral lines of a light source are separated when the light passes through a magnetic field.

A: **Zeeman** effect

Round 7

5. Answer the following about European languages, FTPE.

The only major Romance language spoken east of Italy, Moldovan is considered by many to be a dialect of it.

A: **Romanian**

Most European languages are Indo-European languages, though some, such as Magyar, Estonian and Finnish are Finno-Urgic languages a subfamily of what other language family?

A: **Uralic**

English and Dutch are not mutually comprehensible, but both are mutually comprehensible with this language, spoken in the northern Netherlands.

A: **Frisian**

6. Given a modern work of science fiction, state who wrote it, FTPE.

Ender's Game

A: Orson Scott **Card**

Red Mars

Kim Stanley **Robinson**

Snow Crash

Neil **Stephenson**

7. Identify the Europeans who have been experiencing some difficulties lately, 5-10-15.

a. This president of France is under fire for possible corruption that took place while he was mayor of Paris in the 1980's.

A: Jacques **Chirac**

b. This Russian, who used to run Yelstin's business empire and ally of Vladimir Putin, was arrested in New York City on a Swiss charge of money laundering.

A: Pavel **Borodin**

c. Though his formal job was Northern Ireland Secretary, he essentially was Tony Blair's right-hand man until he resigned over alleged improprieties regarding citizenship for Indian businessman Prakash Hinduja.

A: Peter **Mandelson**

8. Given a quotation from the King James version of the bible, state what book it comes from, FTPE.

"...and what doth the Lord require of thee, but to do justly, to love mercy and to walk humbly with thy God?"

A: **Micah**

"For as the body is one, and hath many members, and all the members of that one body, being many, are one body: so also is Christ."

A: **1 Corinthians**

"Therefore the Lord himself shall give you a sign; Behold, a virgin shall conceive, and bear a son, and shall call his name Immanuel."

A: **Isaiah**

Round 7

9. Given the opera, state who wrote it, 5-10-20-30

Fidelio

A: Ludwig van **Beethoven**

La Traviata

A: Giuseppe **Verdi**

Tosca

A: Giacomo **Puccini**

Die Fledermaus

A: **Johann Strauss Jr.**

10. Given the name of an organic compound, state how many carbons it has, FTSNOP.

5 - methane

A: **1**

5 - propane

A: **3**

10 - toluene

A: **7**

10 - glycine

A: **2**

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

a. [30] The Bride of Lammermoor, Marmion

b. [20] Rob Roy, The Heart of Midlothian

c. [10] The Lady in the Lake, Ivanhoe

Answer: Sir Walter **Scott**

12. Egyptian gods, ten points each.

The god of the moon and of wisdom, his symbol was the ibis.

A: **Thoth**

The goddess of fertility and motherhood, she is the sister and wife of Osiris.

A: **Isis**

The son of Isis and Osiris, he is the falcon-headed god of goodness and of light.

A: **Horus**

13. Identify the Shakespeare play from quotes FTPE.

a. "Arise, dissembler: though I wish thy death, I will not be thy executioner."

Answer: **Richard III**

b. "There is a tide in the affairs of me, Which, taken at the flood, leads on to fortune..."

Answer: **Julius Caesar**

c. "The first thing we do, let's kill all the lawyers."

Answer: **Henry VI part 2**

Round 7

14. Given clues, name the following Mannerists.

Born on Crete and educated in Venice, he is known for such works as *Burial of Christ*, *Assumption of the Virgin* and *Burial of Count Orgaz*.

A: **El Greco** or Domínikos **Theotokopoulos**

A student of Correggio, he is most known for *Madonna of the Long Neck* and *Self-Portrait in a Convex Mirror*.

A: **Parmigianino** or Girolamo **Mazzola**

He studied under Michelangelo briefly, he worked for Pope Clement VII and King Francis I of France. A sculptor and a goldsmith, he is most famous for his Saltcellar for Francis I and the bronze statue *Perseus and Medusa*.

Benevenuto **Cellini**

15. Answer the following about the election of 1824, FTPE.

This man was elected as John Quincy Adams's Vice-President, and would serve Andrew Jackson in that capacity before resigning.

A: John C. **Calhoun**

Name the man who through his votes in the House of Representatives to John Quincy Adams, thereby giving Adams victory.

A: Henry **Clay**

Henry Clay was chosen to fill this government post in Adams's administration, leading to charges of a "corrupt bargain" between the two.

A: **secretary of state**

16. 30-20-10; identify the Roman author from clues.

(30) This first-century B.C. writer composed, among other things, an epic poem describing the year of his consulship, which is no longer extant.

(20) Much of our knowledge of Roman life is due to his letters to his friend Atticus and his numerous philosophical treatises, including *On Old Age* and *On the Orator*.

(10) He is most famous, however, for his career as a statesman and orator and his prosecution of the conspiracy of Catiline.

Marcus Tullius **Cicero**

17. Given a state, give the state's recently-elected freshman senator FTPE.

a. Washington

ANSWER: Maria **Cantwell**

b. New Jersey

ANSWER: Jon **Corzine**

c. Florida

ANSWER: Bill **Nelson**

Round 7

18. Answer the following about minor planets, FTPE.

The largest asteroid, this was also the first asteroid to be discovered.

A: 1 **Ceres**

These two groups of asteroids have the same orbit as Jupiter. One group is 60 degrees ahead of Jupiter, the other is 60 degrees behind it.

A: **Trojan** asteroids

Discovered by Harding in 1804, this 3rd asteroid to be discovered is smaller than the 3rd-largest, Vesta.

A: 3 **Juno**

19. Identify these novels by Edith Wharton FTPE.

a. The failure of an attempted double suicide by sled leaves a pair of illicit lovers crippled and living out their lives in tormenting each other.

Answer: **Ethan Frome**

b. Referred to by its author as "the hot Ethan", this story also describes illicit love in a small New England town, though Charity Royall seems to have some small chance of hope at the end.

Answer: **Summer**

c. This tale, again about an illicit love affair, takes place in 1870s New York, where the attraction between Newland Archer and Ellen Olenska cannot hold out against the combined forces of family and society.

Answer: The **Age of Innocence**

20. 30-20-10, name the author from works.

30 – *Blackberry Winter, Soviet Attitudes Toward Authority*

20 – *New Lives for Old, Sex and Temperment in Three Primitive Societies*

10 – *Growing up in New Guinea, Coming of Age in Samoa*

A: Margaret **Mead**

21. Identify the following Pennsylvanian cities, FTPE.

This city is Pennsylvania's only Great Lakes port.

A: **Erie**

The site of Franklin and Marshall college, this city is Southeastern Pennsylvania is located in the heart of the Pennsylvania Dutch country. Hometown of James Buchanan, it served as the national capital when the Continental Congress fled Philadelphia in 1777.

A: **Lancaster**

Located near Allentown and Easton, it was a major steel center and is the home of Lehigh University and an annual Bach festival. It is named for city a few miles south of Jerusalem.

A: **Bethlehem**

22. Band from songs, 30-20-10.

30 – *It's Hard, Pure and Easy*

20 – *Substitute, 5:15*

10 – *Baba O'Reilly, My Generation*

A: The **Who**

Round 7

23. Identify the following parts of the kidney, FTSNOP.

5 - FFP, give the name of the outer layer of the kidney, a name also given to outer layers of the brain.

A: renal **cortex**

5 – For another five points, give the name for each individual filtering unit of the kidney.

A: **nephron**

10 – This structure contains the glomerulus, a network of capillaries that performs the primary filtering operations of the nephron.

A: **Bowman's capsule**

10 – This is a narrow part of the renal tubule extends downward and back up to the Bowman's capsule.

A: **Loop of Henley**