

Round 6.

1996 ACF Regionals

Questions by Maryland A (Dave Hamilton, Matt Colvin, and Arthur Fleming)

1. His father was a tentmaker, and he adopted as his poetic name the designation of his father's trade. He spent his entire life in his hometown of Naishapur, where he studied under the Imam Mowaffak and became known as a scholar and astronomer. He wrote astronomical tables and a book on algebra, but he is best known for a collection of quatrains translated by Edward FitzGerald from the original Persian. FTP, who is this author of the Rubaiyat?

Answer: Omar Khayyam

2. Like Vishnu Jejjala, this god was a betting man. He gambled with the moon for a seventy-second part of a day, and eventually won five days, which were added to the lunar year to make 365. Known to the Greeks as Hermes Trimegistus, he was alternately represented as having the head of an ibis or that of a dog-headed ape. FTP, name this inventor of arithmetic, geometry, and astronomy, the scribe of the Egyptian gods.

Answer: Thoth

3. This mathematician lends his name to a type of commutative ring in which every element equals itself squared. Largely self-taught, he did important work in differential equations, but his most important work forms the basis of computer technology. FTP, who is this mathematician, author of An Investigation of the Laws of Thought, who created a form of symbolic logic?

Answer: George Boole

4. He advocated rebellion against the unpopular Sir Edmund Andros, and wrote a biography praising the new royal governor of Massachusetts, Sir William Phips. Receiving his degree from Harvard at the age of 15, he spent the rest of his life as preacher at Boston's Second Church. FTP, name this man whose writings on witchcraft may have fomented the Salem witch trials.

Answer: Cotton Mather

5. His poetry is now forgotten except for "The Lament of the Forest", but his paintings are famous. Among them are "View on the Catskill, Early Autumn" and "Schroon Mountain, Adirondacks". From a trip to the Connecticut River he painted "Oxbow", and in 1836 produced the 5 painting series "The Course of Empire". FTP, name this Hudson River School artist most famous for "The Voyage of Life".

Answer: Thomas Cole

6. Among the American prisoners from this battle were 86 men captured by the 1st SS Panzer division at Malmedy, then lined up and machine-gunned to death. Hitler's refusal to shift his attack to the flank making the best progress was foolish, while his offensive was checked by McAuliffe at Bastogne and Hasbrouck at St. Vith. FTP, name this late 1944 German counteroffensive, the last in the European theatre.

Answer: The Battle of the Bulge

7. This structure can be built in a permeable aquifer, such as sandstone, that is bounded above and below by relatively impermeable shale aquicludes. If the elevation of the ground surface is lower than the water table of the aquifer in the recharge area, water will flow out of a well spontaneously. FTP, what is this type of well in which water is brought up by its own pressure?

Answer: Artesian well

8. Since this man's death in 1964, Kingsley Amis tried to continue his writings in Colonel Sun. He served in Moscow as a journalist for Reuters, and borrowed the name of his most famous character from the name of a noted ornithologist. FTP, name this author of Casino Royale, the creator of James Bond.

Answer: Ian (Lancaster) Fleming

9. In *Cohens v. Virginia*, he wrote that "The people made the Constitution, and the people can unmake it." After helping to negotiate Jay's Treaty in France, he was elected to the House from Virginia. He presided over the treason trial of Aaron Burr, and it is said that the Liberty Bell cracked while ringing for his funeral. FTP, name this Supreme Court Justice who presided over the *Marbury v. Madison* decision.

Answer: John Marshall

10. At the 1816 premiere of this opera, the entire first act was sung over a bedlam of whistles and catcalls, while the gallery mimicked Cesare Sterbini's libretto. Characters include Ambrosius, Don Basilio, Rosina, and Count Almaviva. FTP, what is this opera based on a Pierre Caron de Beaumarchais play, which made Gioachino Rossini famous throughout Italy?

Answer: The Barber of Seville or Il Barbiere di Siviglia

11. This physicist was appointed professor of natural philosophy at Pavia in 1778. He discovered methane gas and invented the electrophorus, a device to generate static electricity. Inspired by Luigi Galvani, he developed a constant source of current electricity in 1800. FTP, who is this inventor of the electric battery whose name is given to the unit of electric potential?

Answer: Alessandro Giuseppe Antonio Anastasio Volta

12. This American poet committed suicide in 1862 by jumping from a bridge into the Mississippi river. He wrote the first important critical biography of Stephen Crane and collections of verse including Henry's Fate. FTP, who is this confessional poet, author of 77 Dream Songs and Homage to Mistress Bradstreet?

Answer: John Berryman

13. Napoleon commissioned him, along with Thenard, to discover new elements by building a powerful battery, and he beat Sir Humphrey Davy to the discovery of Boron by nine days. In 1809, he found that gases combined in proportions by volume that could be expressed in small whole numbers. FTP, name this Frenchman most famous for his law that gases expand by equal amounts with rise in temperature - a law Charles also discovered.

Answer: Joseph Louis Gay-Lussac

14. A young Puritan leaves his wife and goes walking in the woods, where he sees or dreams a Witches' Sabbath in which his wife Faith seems to be participating. He also sees the pink ribbon she wore in her hair fluttering down from a tree top. FTP, name this story in Mosses from an Old Manse by Nathaniel Hawthorne.

Answer: Young Goodman Brown

15. His Report on Manufactures fostered industrial growth in the new nation, and he wrote political papers like The Continentalist Essays and Two Letters from Phocion. Born in Nevis in the British West Indies, he was Washington's aide-de-camp in 1777 until a private quarrel between them. FTP, name this contributor of 51 of the Federalist papers, the first secretary of the treasury.

Answer: Alexander Hamilton

16. Socrates seems to always get the better of the people he talks with. But in this late dialogue of Plato, Socrates receives a lecture about the nature of eternal forms from an older philosopher, after whom the dialogue is named. This man had constructed an elaborate argument to prove that whatever is cannot move, come into being, be destroyed, or be different from itself in any qualitative way. FTP, name this philosopher from Elea, the teacher of Zeno.

Answer: Parmenides

17. The outer part of this gland is referred to as the zona glomerulosa (glow-meru-losa), and it secretes hormones called mineralocorticoids (mineral-o-KOR-ti-koyds), of which the most important is aldosterone. Divided into a medulla and a cortex, it also secretes epinephrine. FTP, name these

glands, located, as their name suggests, above the kidneys.

Answer: Adrenal or Suprarenal Glands

18. This office was ended by the Ottoman Turkish conquest of Egypt in 1517, but had already held no real power since 1261, when al-Musta'sim was killed in Hula gu Khan's sack of Baghdad. Muawiya was one, while Abu-al-Abbas as Saffah was another—they established the Umayyad and Abbasid dynasties, respectively. FTP, name this title first held by Abu Bakr, the temporal and spiritual ruler of the Muslim world.

Answer: Caliph or Caliphate

19. Quote: ■Listen, my son, to your father's instruction and do not forsake your mother's teaching.■ ■The fear of the Lord is the beginning of knowledge, but fools despise wisdom and discipline.■ These lines come from a book of the Bible, of which chapter 30 is attributed to Agur son of Jakeh, but credit for the rest goes to Solomon. FTP, name this book that comes after Psalms in the Protestant canon.

Answer: Proverbs

20. Among its more memorable lines is ■When my belly's full of wine, kiss my butt I say to the cold weather!■ Among the Milesian Fables it contains are the story of the Widow of Ephesus and the legend of the Pergamene Boy. Its author was possibly the ■arbiter elegantiae■ of Nero's court. FTP, name this Menippian story of Trimalchio, written by Petronius.

Answer: The Satyricon

21. A lesser known class in this phylum is Cubozoa, which consists of about 20 species of sea wasps. They have no circulatory system, a digestive cavity with only one opening, and a primitive nervous system. FTP, what is this phylum of hydrozoans, corals, sea anemones, and jellyfish?

Answer: Cnidaria (grudgingly accept Coelenterata)

22. He first achieved success as a playwright with Lady Frederick in 1907, and he followed it with a farce entitled Jack Straw. His observations of slums and cockney life formed the basis for his first novel of naturalism, Liza of Lambeth. FTP, name this man who was orphaned at the age of 10, the creator of Philip Carey in Of Human Bondage.

Answer: (William) Somerset Maugham

23. The title of the book The Bell Curve is taken from the research of this man, who showed that mental abilities vary among humans along a bell-shaped distribution. His Meteorographica was the basis for modern weather maps, but he is more famous for devising the system of fingerprint identification. FTP, name this cousin of Darwin and author of Hereditary Genius.

Answer: Francis Galton

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1. Identify the following American Indians, 10 each:

1. This Shoshone woman served as an interpreter on the Lewis and Clark expedition.

Answer: Sacajawea

2. Captain John Smith brought this Pawtuxet Indian back from England to Cape Cod. Finding his people wiped out by smallpox, he helped the Pilgrims plant corn.

Answer: Squanto (accept Tisquantum)

3. This Oglala Sioux chief forced the U.S. government to destroy its forts along the Bozeman trail and sign the Fort Laramie Treaty making him the only Indian chief to win a war against the United States government.

Answer: Red Cloud (Makhpiya-luta)

2. 30-20-10 Name the author from works.

1. The Napoleon of Notting Hill

2. The Man Who was Thursday

3. The Innocence of Father Brown

Answer: G(ilbert) K(eith) Chesterton

3. Name these three philosophers from quotes for 10 points each or from works for 5.

1. For 10 points: ■The rational is real; and the real is rational.■

For 5 points: The Philosophy of Right and The Phenomenology of Mind

Answer: Georg Wilhelm Friedrich Hegel

2. For 10 points: ■Had Cleopatra's nose been shorter, the whole face of the world would have been changed.■

For 5 points: Pensees

Answer: Blaise Pascal

3. For 10 points: ■■Man is by nature a political animal.■

For 5 points: The Nicomachean Ethics and the Politics

Answer: Aristotle

4. Identify these endocrine gland disorders FTP each.

1. This condition occurs when there is an oversupply of growth hormone in a child.

Answer: pituitary Gigantism

2. Resulting in disproportionately large hands and feet and distorted facial features, this condition occurs when oversecretion of growth hormone begins during adult life.

Answer: Acromegaly

3. Mental retardation and body distortion accompany this type of dwarfism, which result from an insufficiency of thyroid hormone.

Answer: Cretinism

5. Identify the authors of the following works FTP each, five if you need easier works.

1. For 10 points: Sweet Thursday For 5 points: Cannery Row

Answer: John Steinbeck

2. For 10 points: No-good Friday

For 5 points: Boesman and Lena and Sizwe Banzi is Dead

Answer: Athol Fugard

3. For 10 points: Saturday Night and Sunday Morning For 5 points: The Loneliness of the Long Distance Runner and The Second Chance

Answer: Alan Sillitoe

6. Identify these sculptors on a 15-5 basis.

1. For 15 points: His first commission was ■The Minute Man■, a Concord, Massachusetts monument. For 5 points: In 1922, he created the seated image of Abraham Lincoln enshrined in the Lincoln Memorial.

Answer: Daniel Chester French

2. For 15 points: He worked briefly under Auguste Rodin, and created highly streamlined and polished egg-shaped carvings such as ■Sleeping Muse.■

For 5 points: He was involved in a lawsuit concerning the status of his ■Bird in Space■ as art.

Answer: Constantine Brancusi

7. After all these questions on dead white males, you're probably wondering how they all died. Identify these ancient battles, 10 each:

1. This August 2, 216 B.C. battle saw Hannibal victorious over Aemilianus Paulus and 60,000 other dead Roman soldiers.

Answer: Cannae

2. Philip II of Macedon crushed a larger Theban and Athenian army and established himself as master of Greece. The young Alexander the Great distinguished himself by leading a critical cavalry charge to give his father the victory in this 338 B.C. battle.

Answer: Chaeronea

3. Alexander the Great defeated the Persians under Darius III, establishing himself as ruler of Persia in this October 1, 331 battle.

Answer: The Battle of Arbela or Gaugamela

8. Number theory rocks! Answer these questions about number theory, for 5, 10, and 15 points.

1. For 5: Which ancient Greek proved in his 12-volume Elements that there are infinitely many primes?

Answer: Euclid

2. For 10: Whose conjecture states that any even integer greater than two can be written as the sum of two primes?

Answer: Christian Goldbach

3. For 15: When the sum of the positive divisors of an integer n excluding itself is greater than n , what is the integer called?

Answer: Abundant

9. Name these economists, 10 each:

1. His McGraw-Hill economics textbook has been translated into over a dozen languages. He received the Nobel Prize in economics in 1970.

Answer: Paul Samuelson

2. Along with Merton Miller, he established theorems applying economic theory to the field of finance, and he originated the ■lifecycle hypothesis■ of savings.

Answer: Franco Modigliani

3. He popularized economics by writing for ■Newsweek■ and hosting the TV series ■Free to Choose■. He won the Nobel Prize in 1976.

Answer: Milton Friedman

10. This is a Maryland packet, and that means it's time for the third in our ongoing series of perverted mythology bonuses. Identify these mythological perverts, 10 each:

1. This peeping Tom ogled Artemis while she was bathing, and in revenge, she turned him into a stag and he was devoured by his own hounds.

Answer: Actaeon

2. This scoundrel would offer hospitality to wayfarers, then chain them to a bed. However, rather than do anything perverted, he stretched them out to make them fit. Theseus killed him by chopping off his head to make him fit the same bed.

Answer: Procrustes

3. The snake-bodied Erichthonius was born when this god ejaculated on the ground while trying to

love to Athena. Earlier, he had brought her into the world by splitting Zeus's cranium with an axe.
Answer: Hephaestus

11. Identify these chemists for 15 points each.

1. Winner of the 1934 Nobel Prize, he isolated deuterium and later heavy isotopes of oxygen, carbon, and sulfur. He also supervised Stanley Miller's project to simulate the creation of organic compounds from a mixture designed to simulate conditions on the primordial Earth.

Answer: Harold Clayton Urey

2. Winner of the 1921 Nobel Prize, this radiochemist discovered forms of the same element with different atomic weights in 1913, which he called isotopes.

Answer: Frederick Soddy

12. Identify the following figures in modern Chinese history for the stated number of points.

1. On October 1, 1949, the People's Republic of China was proclaimed. For 5 points each, name the chairman and the premier of the Republic.

Answer: Mao Zedong and Zhou or Chou Enlai

2. After the creation of Red China, this man fled to Taiwan, where he established a new seat for the Republic of China government. FTP, name this former head of the Kuomintang.

Answer: Chiang Kai-shek

3. FTP: He became deputy party chairman in 1977 and became the most powerful Chinese leader since Mao. Jiang Zemin is a former associate of this man.

Answer: Deng or Teng Xiaoping

13. Since this is a Maryland packet, it's time for Geography from Hell (copyright, Mike Starsinic). However, since it's only Regionals, we'll settle for Geography from Purgatory. For the stated number of points, answer the following concerning the geography of Russia.

1. 5 pts: Near Astrakhan, the Volga River flows into what sea, the largest lake in the world?

Answer: Caspian Sea

2. 10 pts: To the west of this peninsula are the Shelikof Gulf and the Sea of Okhotsk; to the east, the Pacific Ocean. FTP, name the peninsula, known to Risk players.

Answer: Kamchatka peninsula

3. 15 pts: This sea north of Russia is surrounded by the Kola Peninsula, the islands of Novaya and Zemlya, and Franz Josef Land.

Answer: Barents sea

14. For 5 points each, name the spouses of the following Shakespearian characters.

1. Othello Answer: Desdemona

2. Theseus Answer: Hippolyta

3. Julius Caesar Answer: Calpurnia

4. Virgilia Answer: Coriolanus

5. Florizel Answer: Perdita

6. Regan Answer: Duke of Cornwall

15. 30-20-10, name the American.

1. He graduated from West Point in 1829 without a single demerit, and he married a great-granddaughter of Martha Washington.

2. Superintendent of West Point from 1852 to 1855, he commanded the troops that put down John Brown's raid in 1859.

3. He is best known for his victories at Second Bull Run, Fredericksburg, and Chancellorsville.

Answer: Robert Edward Lee

16. Identify the following quantities from the study of fluids, for the stated number of points.
1. 5 pts: Its coefficient is the letter eta, and it is often measured in units of poise. It is the analogue of friction in solid motion.

Answer: viscosity

2. 10 pts: This dimensionless quantity, symbolized by the letter R, determines the velocity at which fluid flow becomes turbulent.

Answer: Reynolds number

3. 15 pts: The ratio between stress and strain, this quantity is a measure of the compressibility of a fluid.

Answer: bulk modulus (NOT Young's modulus)

17. Name the following composers from oratorios for 10 points; 5 if you need other works.

1. 10 pts: St. Paul and Elijah 5 pts: ■Hebrides■ overture

Answer: Felix Mendelssohn

2. 10 pts: The Creation and The Seasons 5 pts: ■Clock■ and ■Farewell■ symphonies

Answer: Franz Joseph Haydn

3. 10 pts: The Dream of Gerontius 5 pts: ■Enigma■ Variations

Answer: Sir Edward Elgar

18. Name the following Old Testament prophets FTP each.

1. He lived in the late 7th and early 6th centuries B.C., during which he predicted the fall of Jerusalem to Nebuchadnezzar. His prophecies were arranged by his secretary Baruch.

Answer: Jeremiah

2. His story in the Bible includes his raising a widow's son from the dead, hearing a voice on Mt. Horeb, and his departure from earth in a chariot of fire.

Answer: Elijah

3. His book of the Bible describes an invasion of locusts and a devastating drought in Palestine. He is the second of the Minor Prophets.

Answer: Joel

19. Greed works! Show that you're greedy for 30 points by naming these American robber-barons.

1. Ida Tarbell worked to expose this man as an unbridled capitalist, and a 1911 Supreme Court decision forced him to retire from control of Standard Oil of New Jersey.

Answer: John D. Rockefeller

2. This owner of the New York World collaborated with James Fisk in an attempt to corner the gold market in 1869, causing the so-called Black Friday panic.

Answer: Jay Gould

3. When asked whether he ran a train for the public's benefit, this son of Cornelius Vanderbilt replied, ■The public be damned!■

Answer: William Henry Vanderbilt

20. It's time for another David Hamilton letter category biology bonus. Identify these ■S■ terms from biology FTP each.

1. A juncture between two neurons.

Answer: Synapse

2. A ring-shaped muscle that can close a tubular structure by contracting.

Answer: Sphincter

3. A plant supportive tissue composed of cells with thick secondary walls.

Answer: Sclerenchyma

21. Given characters in a Moliere play, name the play, 10 points each.

1. Alceste, Celimene

Answer: Le Misanthrope or The Misanthrope

2. Argan, Purgon, Diafoirus
Invalid

Answer: Le Malade imaginaire or The Imaginary

3. Orgon, Elmire

Answer: Le Tartuffe