

1996 ACF Nationals
Questions by ACFNTC #1A

1. In their old age he and his wife Harmonia were turned into serpents by Zeus and sent to the Elysian fields. The son of Agenor, misfortune plagued his family because he killed the sacred dragon guarding the spring of Ares. FTP name this mythological figure who founded Thebes with the help of several armed men who sprang up when he sowed the dragon's teeth.

Answer: Cadmus

2. Because Einstein had pointed out that electromagnetic radiation could be viewed as having particle aspects and these would especially be present in high energy radiation, he chose to work with X-rays to examine this behavior. In 1923, he discovered that when x-rays or gamma rays collide with matter and are scattered by electrons, their wavelengths increase proportionally with the angle between the incident and scattered rays. FTP name the physicist who discovered this "effect" that bears his name.

Answer: Arthur Holly Compton

3. During his reign, the British laid the foundations of their future empire with the 1757 victory at Plassy and the 1759 win at Quebec. Other military successes in his reign include the battle of Dettingen in the War of the Austrian succession and the defeat of the forces of Bonnie Prince Charlie in 1745. For 10 points, identify this British monarch who ruled from 1727 to 1760.

Answer: George II

4. In 1986 he won the Booker Prize for his novel *The Old Devils*, which was later adapted for the stage, and he was knighted in 1990. While a lecturer at the University of Swansea in 1954 he published a novel about a lower middle class English lecturer at a provincial university entitled *Lucky Jim*. FTP name this writer who died in 1995 at age 73.

Answer: Kingsley Amis

5. This instrument was invented and first played by its namesake in 1920 and the inventor's lover, Clara Rockmore, was its first virtuoso. FTP name this unusual musical instrument whose pitch is controlled by a vertical antenna, its volume by a horizontal loop and its tone produced by hand movements through a magnetic field.

Answer: theremin

6. These organs are subject to the control of the hormone vasopressin or ADH. They have a medulla which contains papilla and collecting tubules and a cortex which contains structures such as the convoluted tubules, and the glomeruli. For 10 points, identify these organs in which you would also find the loop of Henle and Bowman's capsules.

Answer: kidney

7. He was studying architecture at Frankfurt in 1805 when he was persuaded to become a teacher. In 1816 he founded the Universal German Educational Institute for training teachers in his methods, which stressed the importance of pleasant surroundings, self-activity and physical training in the development of the child. FTP name this educator who founded the first kindergarten at Bad Blankenburg in 1837.

Answer: Friedrich Froebel

8. He can be considered the patriarch of the impressionists, not only because he was slightly older, but because of his benign and gentle nature. At the rather advanced age of 27 he met Corot, who in 1857 persuaded him to abandon his training to paint in the open air, allowing the production of such works as "Winter Landscape", "The White Frost", and "The Pont de Pierre, Rouen". For 10 points, identify this prolific artist, the only one of the impressionists to exhibit at all eight of the exhibitions.

Answer: Camille Pissarro

9. In 1926 it was declared unconstitutional by the U.S. Supreme Court, 39 years after its repeal and 59 years after its passage. In 1868, President Andrew Johnson fired Secretary of War Edwin Stanton in violation of this law and for that he was impeached by the House 3 days later. FTP name this controversial legislation passed over Johnson's veto in 1867.

Answer: Tenure of Office Act

10. Two of his works, a Robinson Crusoe-like novel *The Island of the Day Before* and a series of essays entitled *The Search for the Perfect Language* were recently translated into English from Italian. FTP name the author of these works, as well as the earlier novels *Foucault's Pendulum* and *The Name of the Rose*.

Answer: Umberto Eco

11. A colorless gas with a sweetish taste and odor, it is prepared commercially by the thermal decomposition of ammonium nitrate at around 240 degrees Celcius. It was discovered by Sir Humphrey Davy in 1800 who after inhaling 16 quarts of it discovered he was relatively immune to pain. FTP name this anesthetic with formula N₂O.

Answer: nitrous oxide or nitrogen (1) oxide or laughing gas

12. His longest novel tells of the relationship of the rich man Dryfoos to the magazine he has casually bought. Basil March, who had already appeared in the novel "Their Wedding Journey" is put in charge of the magazine and resigns rather than fire a free-spoken radical from the staff. For 10 points, identify this American author of A Hazard of New Fortunes best known for his work, The Rise of Silas Lapham.

Answer: William Dean Howells

13. They may be prepared from vicinal or geminal dihalides by using 3 parts sodium amide in the presence of ammonia. Each of the carbons that characterize them are sp hybridized and the bond linking the carbons can be seen to have one sigma and two pi components. For 10 points, identify this class of hydrocarbons of general formula $C(n)H(2n-2)$, the simplest of which is acetylene.

Answer: alkynes

14. This organization is frequently called a 20th-century representative of British empiricism, but a number of recent authors have argued that this is a misunderstanding, and that the organization actually started as a Neo-Kantian movement. It was highly influenced by the writings of Pierre Duhem, Henri Poincare and Ernst Mach, and its members included Herbert Feigl, Otto Neurath, Moritz Schlick, and Rudolf Carnap. Its principle doctrines were popularized by A. J. Ayer, and it had an important interaction with Wittgenstein. For ten points, name this group that invented logical positivism.

Answer: The Wiener Kreis, or the Vienna Circle

15. His powerful attack on accepted religion, The Age of Reason, alienated most of his former friends including George Washington. In reply to Edmund Burke's Reflections on the Revolution in France, he wrote the 1791, The Rights of Man. For 10 points, identify this English born American revolutionary best known for his series of pamphlets, The American Crisis.

Answer: Thomas Paine

16. With their highest elevation at Torrellas or Puig Mayor, they are actually partially submerged peaks that create such islands as Formentera and Ibiza as a continuation of the mountains of southeastern Spain. For 10 points, identify this island group with its capital at Palma whose two largest members are Majorca and Minorca.

Answer: Balearic islands

17. He served as Bishop of Exeter under Edward VI from 1551-1553 and rector of St. Magnus, London Bridge from 1563-1566. In 1535, while in exile in Zurich, he published the first translation of the entire Bible into English. FTP name this English Protestant reformer and biblical scholar.

Answer: Miles Coverdale

18. In return for receipt of full rights as subjects of the crown and a re-affirmation of their land ownership, the Maori pledged loyalty to the crown and recognized British sovereignty. It was by this treaty and British claims to discovery of the South Island that Britain based its May 22, 1840 claim to all New Zealand. FTP what is this agreement signed by William Hobson and 50 Maori chiefs in February, 1840?

Answer: Treaty of Waitangi

19. He is found by Squire Allworthy and raised by Allworthy's sister Bridget along with her son by Captain Blifil. After an affair with the gameskeeper's daughter, he is sent packing and has many adventures on the road to London. After it is discovered that he's actually Bridget's son, he's named heir to Allworthy's estate and marries Sophia, the daughter of the neighboring squire. FTP name this Fielding title character.

Answer: Tom Jones

20. In 1544, he became organist and maestra di canto at the cathedral of St. Agapit in his native town, where Julius III had served as bishop. Aware of the young man's talent, Julius called him to Rome in 1555 and put in charge of the Pontifical Choir but he was soon retired by Paul VI. For 10 points, identify this Italian composer of 90 masses and a large number of motets, who is regarded as the finest composer of the Renaissance.

Answer: Giovanni Pierluigi Palestrina

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1. For 10 points each identify these treaties from American history.

1. It was a 1795 treaty signed by 12 Indian tribes setting a definitive boundary in the Northwest Territory.

Answer: Treaty of Greenville

2. It was an 1803 Treaty giving the U.S. a bit more land along the Wabash.

Answer: Treaty of Vincennes

2. This 1819 treaty ceded East Florida to the U.S. and defined the western border of the Louisiana Purchase.

Answer: Adams-Onis Treaty

2. Dios no me amo! It's time for physics with the guy in the bee suit. If you've seen many Simpsons episodes you'll know that the guy in the bee suit has a rough time in life. By the time you're finished with this bonus you may be thinking "No me gusta!" You get 20 seconds per part.

Assume Senor abeja's outer layer of skin is an ungrounded perfect conductor, and as he is eating spaghetti he is shocked by a strand briefly being plugged into the wall outlet placing a charge on his skin of 4 coulombs. Use k for the quantity one over 4 pi epsilon naught.

1. 10 pts: What is the electric field at any point in the interior of his body?

Answer: zero

2. 10 pts: Assume the charge is uniformly distributed in his skin. What is the potential difference in volts between his head and toes if he is 1 meter tall?

Answer: zero

3. 10 pts: Assuming the bee guy is perfectly spherical, what physical can be used to calculate the electric flux at any point outside his body?

Answer: Gauss's law

3. Did you bring your steel drums with you? I hope so because its time for a Calypso bonus. For the stated number of points answer the following questions by the Greek version of Calypso.

1. For 5 points, in some versions, Calypso is one of what group of seven daughters of Atlas?

Answer: Pleiades

2. For 10 points, on what island did Calypso reside?

Answer: Ogygia

3. For 5 points, in other versions she is the daughter of Helios and Perseis. This makes what mythological sorceress Calypso's sister?

Answer: Circe

4. For 10 points: In that same version of her origin she had a brother. Name this sibling who was ruling in Corinth when Phrixus showed up on the ram with golden fleece.

Answer: Aeetes

4. Identify the following seemingly unrelated persons for 10 points each.

1. This man who served in the US House from 1923 to 1933 co-sponsored the 1932 Anti-Injunction Act.

Answer: Fiorello La Guardia

2. This man was pastor of the Shrine of the Little Flower in Royal Oak Michigan from 1926 to 1966.

Answer: Father Charles Coughlin

3. This author wrote the book of fairy tales called "Flower Fables".

Answer: Louisa Mae Alcott

5. Answer the following questions about works written in French for 10 points each given one clue, 5 points given a second.

1. For 10 points, identify the famous sleuth of the Paris Police department who was introduced in The Strange Case of Peter the Lett.

5 pts: He was created by Georges Simenon

Answer: Inspector Jules Maigret

2. 10 pts: This 1926 novel concerns a ring of boys who attnd the Pension Azais and Eduoard who is writing a novel that shares its name with the actual work.

5 pts: The boys are suspected of the crime mentioned in the title of this Andre Gide work.

Answer: The Counterfeiters or Les Faux-Monnayeurs

3. 10 pts: This famous children's storyteller was introduced in a 1692 collection that included "Bluebeard" and "Puss in Boots".

5 pts: She was created by Charles Perrault

Answer: Mother Goose

10pt: The title character is mistress and then wife to King Enrico

6. Identify these operas on a 10-5 basis; the 5 point clue is the opera's composer.

1. 10 pts: Manrico, who is eventually revealed to be the son of a nobleman, is raised by a gypsy.

5 pts: ~~Giuseppe Verdi~~ Gaetano Donizetti

Answer: Il Trovatore or The Troubador *Anna Bolina*

2. 10 pts: It's the story of prisoner Don Fernando Florestan and his faithful wife Leonora, and her switch of identity to get nearer her husband.

5 pts: Beethoven.

Answer: Fidelio

3. 10 pts: In it, Krusina and Ludmila intend their daughter to marry Vasek, but she loves Jenik instead.

5 pts: Smetana

Answer: The Bartered Bride (Prodana Nevesta)

7. Identify these astronomical things for ten points each. 1. First pointed out by Titius in 1766, it was a simple arithmetical relation-ship between the distances from the Sun of the known planets.

Answer: Bode's Law

2. This two-word term is applied to the ideas of Kant and Laplace for the origin of the solar system.

Answer: Nebular Hypothesis

3. This is the term applied to the small nodding motion of the Earth's axis of rotation. It has a period of 19 years and is superimposed on precession.

Answer: nutation

8. Given a short description, identify the Alexander Pope works for the stated number of points.

1. 5 pts: Belinda is the heroine of this story based upon a real-life incident involving Lord Petre and Arabella Fermor.

Answer: The Rape of the Lock

2. 10 pts: This work contains the line "To err is human, to forgive divine".

Answer: An Essay on Criticism

3. 15 pts: This four book story concerns the Goddess of Dullness and Colley Cibber, the king of the title peoples.

Answer: The Dunciad

9. Answer the following questions about the first Sino-Japanese war for 10 points each.

1. The war began when Japan forced what nation to assert its independence from China?

Answer: Korea

2. Name any year during which the war was fought.

Answer: 1894 or 1895

3. What April 1895 Treaty ended the war and returned the Liaotung Peninsula to China?

Answer: Shimonoseki

10. You could all probably tell me in what novel you would find Oliver Twist. However, that won't get you a lot of points. You will earn 10 points each for telling me in what works the following Olivers can be found. You will get 5 points if you need the author's name.

1. 10 pts: Oliver Alden 5 pts: George Santayana

Answer: The Last Puritan

2. 10 pts: Oliver who hates his brother Orlando 5 pts: William Shakespeare

Answer: As You Like It

3. 10 pts: The stickler for moral and theological rectitude, Parson Oliver appears in this spoof of Pamela.
pts: Henry Fielding

Answer: Shamela or Shamela Andrews or Apology for the Life of Mrs. Shamela Andrews

11. Given works, identify the social scientists, for ten points each given one clue for 5 points given a second.

1. 10 pts: This sociologist studied religious beliefs and practices, including the vision quest of the plains Indians and wrote that a society's culture was simply "personality writ" large.

5 pts: She wrote that in Patterns of Culture.

Answer: Ruth Benedict

2. 10 pts: He wrote An American Dilemma: The Negro Problem and Modern Democracy

5 pts: He shared the 1974 Nobel Prize in Economics.

Answer: Gunnar Myrdal

3. 10 pts: This American social reformer asserted that working the land was a natural right and that landlords were not entitled to reap the profits from it in his landmark 1880 work.

5 pts: He espoused this theory in his Progress and Poverty

Answer: Henry George

12. Answer the following related questions about the history of science.

1. For 5 points, identify the British scientist who created a double-walled flask that became the basis for the modern thermos.

Answer: Sir James Dewar

2. For 5 points, Dewar spent his early years trying to discover the structure of benzene in the lab of this man who eventually did elucidate its structure.

Answer: Friedrich August Kekule von Stradonitz

3. For 10 points, Kekule was a student of another German chemist who pioneered the theory of chemical radicals, showed fulminates to be isomers of cyanates, and postulated that organisms in the soil were necessary for its health.

Answer: Justus Baron von Liebig

4. For 10 points, Liebig collaborated with this other notable German organic chemist on a study of the benzoyl radical and later worked with him on uric acid.

Answer: Friedrich Wohler

13. Identify the following less well known art movements of the early 20th century.

1. Named by Guillaume Apollinaire, who had a tendency to name such things, this movement denotes the style of painting created and practiced by the French painter Robert Dalaunay.

Answer: Orphism or Orphic cubism

2. This highly austere geometric abstract art was created in Russia in 1913 by Kasimir Malevich.

Answer: Suprematism

3. This movement's main antecedent is collage cubism and the two main currents of it are represented in the works of Vladimir Tatlin and the in those of the brothers Naum Gabo and Antoine Pevsner.

Answer: Constructivism

14. Identify these American authors on a 10-5 basis.

1. 10 pts: he wrote the series of essays One Man's Meat, and collaborated with Thurber on Is Sex Necessary?.

5 pts: He also wrote Charlotte's Web.

Answer: E(lwyn) B(rooks) White

2. 10 pts: He wrote The Art of the Novel and Transatlantic Sketches.

5 pts: He also wrote The Golden Bowl and What Masie Knew.

Answer: Henry James

3. 10 pts: He wrote The Sacred Wood and Notes Towards a Definition of Culture.

5 pts: He also wrote Old Possum's Book of Practical Cats.

Answer: T(homas) S(tearns) Eliot

15. Identify the following philosophical schools or movements of classical Greece:

This movement is represented by such philosophers as Philo Judaeus and Plotinus. It enjoyed a revival in Renaissance Italy, when it was championed by Marsilio Ficino and Pico della Mirandola. It was itself a revival and transformation of the ideas of the author of the Timaeus and the Laws.

Answer: Neoplatonism

It is sometimes known as Pyrrhonism, after its founder Pyrrho. Its representatives include Sextus Empiricus. In the 16th century, the French philosopher Montaigne attempted to revive this movement, arguing that it could be used to lead people to the true faith. This is somewhat ironic, since the original movement insisted upon the importance of suspending judgment.

Answer: Skepticism

This movement was characterized by distinctive doctrines concerning a broad range of topics, including logic, physics, theology and rhetoric. But it is perhaps best known for its ethical doctrine, according to which we must live according to reason, which entails that we resign ourselves to accepting our place in the cosmos as dictated by natural law. Its name derives from a Greek word that can be translated roughly as "porch."

Answer: Stoicism

16. The other night, your intrepid question writer rented a 1962

Henry Fonda film about the controversial confirmation of a US Secretary of State. Answer these questions about it for the stated number of points:

1. For five points, what is the name of this adaptation of an Allen Drury best seller?

Answer: Advise and Consent

2. For five points, name the film's director, who also directed the equally controversial Man with the Golden Arm and Anatomy of a Murder?

Answer: Otto Preminger

3. For ten points, making his final acting appearance in Advise and Consent was the Best Actor Oscar winner of 1933. Name this British actor, who had made his next to last performance in Spartacus?

Answer: Charles Laughton

4. For ten points, the US President was played by Franchot Tone, who was one of three men involved in the only time that three Best Actor nominations have resulted from the same film. What was this movie, that also resulted in nominations for Clark Gable and Charles Laughton?

Answer: Mutiny on the Bounty

17. Protein has recently made a comeback in the dieters circuit as an important component for weight loss. What they have failed to tell you is that protein can also be a vital source for point gain for your team. Answer the following questions about various proteins for the stated number of points.

1. 5 pts: Divided into alpha, beta, and gamma types, these proteins are produced by animal cells when they are invaded by viruses.

Answer: interferons

2. 10 pts: The thick filaments of muscle tissue are formed of this 6 chain protein.

Answer: myosin

3. 5 pts: This protein associated with cartilage is the most abundant in vertebrates.

Answer: collagen

4. 10 pts: This class of proteins, associated with eggs, acts as an osmotic counter-balance to allow blood to keep its water.

Answer: albumin

18. Answer the following questions about the Hapsburgs and their titles for 10 points each.

1. What man established the imperial line when he was elected King of the Germans in 1273.

Answer: Rudolf I

2. The Hapsburgs ruled with out sanction of the pope until what member of the family was crowned Holy Roman Emperor in 1452?

Answer: Frederick III

3. What Hapsburg ruler was the last to hold the title Holy Roman Emperor?

Answer: Francis II

19. Name the following landlocked countries on a 10-5 basis.

1. 10 pts: It is the only landlocked nation of Southeast Asia.

5 pts: Much of its border with Thailand is provided by the Mekong River.

Answer: Laos

2. 10 pts: Those of you addicted to nature shows will know this country as the home of the inland delta of the Okovango River.

5 pts: It shares the Kalahari desert with Namibia, its neighbor to the west.

Answer: Botswana

3. 10 pts: The East and West Beskid Ranges of the Carpathian Mountains lie on its border with Poland.

5 pts: Its capital is Bratislava.

Answer: Slovakia

20. Identify the following less well-known mathematicians for the 15 points each.

1. Living from 1849 to 1925, this German was as well known for his lectures at Gottingen as his math. Today he is remembered for a topological construct, a one-sided surface, closed with no boundary that bears his name.

Answer: Christian Felix Klein

2. This author of the "Treatise on Fluxions" organized the defense of Edinburgh during the 1745 Jacobite rebellion. His theorem for series expansion is a special case of Taylor's theorem.

Answer: Colin Maclaurin