

1996 ACF Nationals

Questions by ACFNTC #3A

1. He attacked the notion of the infinitesimal and challenged the foundation of calculus in a mathematical polemic called *The Analyst*. While awaiting funds from Parliament to establish a missionary college in Bermuda, he lived in Rhode Island where he wrote *Alciphron*, or the Minute Philosopher. Maintaining that to be is to be perceived, he held that material objects are ideas in our mind with no independent existence. FTP identify this Irish-born English philosopher who was one of the most influential thinkers of the school of idealism.

Answer: George Berkeley

2. Probably an outgrowth of *Alberich*, he appears in the French romance *Huon de Bordeaux* as the son of Julius Caesar and Morgan Le Fay. His most famous literary exploits involves his efforts to obtain the services of a changeling page from his wife. He "knows a bank where the wild thyme blows, where ox-lips and the nodding violet grows" and dispatches his servant Puck to anoint his sleeping queen with a love potion there. FTP identify this husband of Titania and king of the faeries in *A Midsummer Night's Dream*.

Answer: Oberon

3. From 1847 until his death, he was a U.S. senator. As chairman of the Committee on Territories, he was one of the principal architects of the Compromise of 1850. Bypassed for the Democratic presidential nomination in 1856, his construction of the Freeport Doctrine alienated southern Democrats. FTP identify this champion of the notion of popular sovereignty who was the Northern Democrats' contender for the Oval Office in 1860.

Answer: Stephen Arnold Douglas

4. Little is known of her life except that she was a courtier's daughter and that she was married and had one child. After her husband's death, she served as a lady-in-waiting. Her diary, translated by Arthur Waley, along with a collection of tanka are interesting literary works. But she is best remembered for a vast chronicle of court life centered on the career and women of Prince Genji. FTP identify this woman, arguably the author of the world's first novel.

Answer: Lady Murasaki Shikibu

5. The prefect of the department of Grenoble in southeastern France, when challenged to do so he built the first real road from Grenoble to Turin. A friend of Napoleon, he befriended the boy Champollion and tried and failed to decipher the Rosetta Stone. His research into heat published in 1822 made use of a claim he presented in 1807 which held that an arbitrary function defined in a finite interval could always be resolved into the sum of pure sine and cosine functions. FTP identify this man whose series are invaluable tools in physics and mathematics.

Answer: Jean Baptiste Joseph, Baron de Fourier

6. She was the daughter of King Oeneus of Calydon and legend has it that

she knew how to drive a chariot and understood the art of war. When Heracles visited Hades in search of Cerberus, he encountered her brother Meleager, who entreated the hero to marry her as she was left without means of support since his death. FTP identify this wife of Heracles who later poisoned him with the blood of Nessus.

Answer: Deineira or Deinara

7. In 1976 President Ford vetoed a bill that would weaken this legislation. A 1940 amendment prohibits campaign contributions from federal employees and extends the act to cover state and local employees in departments receiving federal aid. It prohibits federal officials from intimidating or bribing voters and forbids most U.S. government employees from participating in electoral politics. FTP identify this 1939 legislation sponsored by the senator from New Mexico for whom it is named that regulates the political activities of federal employees.

Answer: Hatch Act

8. An overturned basket of fruit lies neglected near the front of the picture space. One of the figures in the foreground carries a cane while another wields a pillow. In the wooded background, a solitary woman wades knee deep in a pond. A quotation of a Raphael engraving of river gods, the two well-dressed and fashionable gentlemen in the foreground converse in the presence of an undressed young woman. FTP identify this 1863 canvas by Edouard Manet that caused a scandal when it was presented at the Salon.

Answer: Luncheon on the Grass or Le Dejeuner Sur L'Herbe

9. Though initially trained in physics and mathematics, he studied psychology under Wilhelm Wundt. On a research assignment in Australia, at the outbreak of the first World War, he was confined to the Trobriand Islands near the eastern tip of New Guinea. After the war, he was appointed the first professor of social anthropology at the London School of Economics. FTP identify this practitioner of functionalism and originator of modern ethnographic field work who wrote Argonauts of the Western Pacific and Coral Gardens and their Magic.

Answer: Bronislaw Malinowski

10. His famous statement "chance favors the prepared mind" may have alluded to his work on tartrate crystals in the 1840s. In later work, he demonstrated the link between airborne organisms and meat spoilage, and used attenuated rabies germs to save a mauled boy. FTP name this Frenchman famous for his "germ theory of disease" and his suggestion to heat wine to 120 degrees to prevent spoiling.

Answer: Louis Pasteur

11. It is said that his actions on behalf of a poor widow inspired St. Gregory to pray that he be brought back to life so that he might receive the grace of God despite his pagan birth. From 101 to 106 he waged war against the Dacians; in 113 he attacked the Parthians and added Mesopotamia and Armenia to the Roman Empire. Despite his presence on the field even after becoming emperor, his public works projects in Rome included the construction of the Forum. FTP identify this man, the adopted son of Nerva who was succeeded by Hadrian.

Answer: Trajan

12. It is set in Italy in the early 19th century and follows the fortunes of Fabrice del Dongo, a young admirer of Napoleon. In the course of the novel, Dongo fights at Waterloo, kills a rival, fathers a child and retires to the Carthusian monastery of the title city. FTP identify this work, second only to *The Red and the Black* in the works of Stendahl.

Answer: The Charterhouse of Parma

13. He committed suicide in 1822, 13 years after his duel with George Canning resulting from the Walcheren incident. The 2nd Marquess of Londonderry, he was Chief Secretary for Ireland from 1798 to 1801 and through his political skill pushed through passage of the Act of Union creating the United Kingdom. FTP name this man who from 1812 to 1822 held the office of Foreign Secretary, and thus led the British delegation at the Congress of Vienna.

Answer: Robert Stewart, Viscount Castlereagh

14. It has long porticoes surmounted by a mezzanine, a second floor, and once open upper porticoes, and it lies near the banks of the Arno River. Its Mannerist architect, more famous for art history than art, created it from a set of pre-existing buildings between 1560 and 1580. FTP name this work of Vasari which in 1743 became a public showcase for the art of the Medici.

Answer: Uffizi

15. It is the least well known of the important physical constants, and its currently accepted value may be off by as much as 0.01%. Like Hubble's constant, some cosmological models predict that it changes with time. With units meters-cubed per second-squared per kilogram, the first reasonable measurement of its value was made in 1798 and was quoted as an afterthought in a paper that determined the density of the Earth from its weight and volume. FTP identify this constant determined with a torsion balance by Henry Cavendish.

Answer: Universal gravitational constant or G

16. From the 1840's to the 1940's this term was used to denote either the transfer of ownership or title of a piece of property, or a quality of mental derangement or insanity. Marxists adopted the word to refer to the condition of a worker becoming a "thing" because of losing control over the process of work and the product of his labor. For 10 pts. what is this term, used in sociology to describe the powerlessness and social isolation individuals feel?

Answer: alienation

17. Its central character suffers at the hands of the brutal Father Dolan at Jesuit school and witnesses a quarrel between supporters of Parnell and those who saw his fall as God's just punishment for adultery. First published in serial form in The Egoist, what, FTP is this novel centered on the character of Stephen Dedalus by James Joyce.

Answer: A Portrait of the Artist as a Young Man

18. No simple formula conveys the whole sense of the structure of this ion, but the Grotthus mechanism offers an explanation that says the migration of a proton is in fact not an actual movement of the ion through the solvent but a cooperative rearrangement. FTP, identify this positive ion formed when an acid donates a proton to a water molecule.

Answer: hydronium or H_3O^+

19. It is surrounded by the Alalakeiki, Auau, Pailolo, and Alenuihaha Channels, and it is known as the "valley isle" because of a 7 mile long valley-like isthmus connecting land created by two volcanoes, Puu Kukui and Haleakala. FTP, identify this island named for a Polynesian demigod, the second-largest of the Hawaiian Islands.

Answer: Maui

20. The name "The Heathen Chinee" was popularly given to his humorous 1870 poem "Plain Language from Truthful James". He wrote the satirical "Condensed Novels" and published the poetry collection "The Lost Galleon and Other Tales" while editor of the Overland Monthly. FTP, identify this American writer whose best known work is The Luck of Roaring Camp.

Answer: Bret Harte

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1. FTP each, answer these questions about a major British governmental crisis.

1. Which Secretary of War was forced to resign in 1963 after lying about his affair with a teenage showgirl?

Answer: John Profumo

2. Who was the teenage showgirl, who was also involved with a Soviet naval attache?

Answer: Christine Keeler

3. Which British prime Minister resigned later in 1963 due to a series of scandals and poor health?

Answer: (Maurice) Harold Macmillan

2. Identify these Egyptian deities associated with Set for the stated number of points.

1. 5: The son of Isis and Osiris, he defeated Set and assumed his father's throne.

Answer: Horus

2. 10: She was the sister and wife of Set.

Answer: Nephthys

3. 15: This was the name which the Greeks associated with Set. It also refers to a son of Tartarus and Gaia.

Answer: Typhon

3. A group of poets at Vanderbilt University formed the core of the Fugitives and Agrarians of the 1920's and 30's.

1. What Vanderbilt professor edited the magazine The Fugitive and later founded and edited The Kenyon Review. His essay collections include God Without Thunder and The World's Body.

Answer: John Crowe Ransom

2. A student of John Crowe Ransom, his poems include "Ode to the Confederate Dead" and "The Mediterranean". He wrote biographies of Jefferson Davis and Stonewall Jackson.

Answer: John Orley Allen Tate

3. What 1930 manifesto of 12 essays was the best known publication of the Agrarians?

Answer: I'll Take My Stand

4. Identify the following equations for the stated number of points each.

1. In its original formulation, a statement unaltered by the theory of relativity, it holds that the force acting on a particle is the time derivative of the particle's momentum.

Answer: Newton's Second Law

2. FTP, this equation named for one of the winners of the 1933 Nobel Prize in Physics holds that the second partial derivative of a quantum mechanical wave function with respect to position is a function of the partial derivative of the wavefunction with respect to time and the product of the wavefunction and the potential acting on the system.

Answer: Schrodinger Wave Equation

3. F15P, it holds that dot product of the gradient operator and current plus the partial derivative of charge density with respect to time equals zero.

Answer: Equation of Continuity

5. 30-20-10 name the actress.

1. She portrayed Eleanor Roosevelt in the television films Eleanor and Franklin in 1976 and Eleanor and Franklin: The White House Years in 1977.

2. She has four Academy Award nominations for roles in The Great White Hope, All the President's Men, Kramer vs. Kramer and Testament.

3. She currently serves as chairperson of the National Endowment for the Arts.

Answer: Jane Alexander

6. Identify these twentieth century art critics FTP each.

1. Appointed Curator of Painting at the Metropolitan Museum of Art in 1906, he sponsored two exhibitions in 1910 and 1912. Introducing Londoners to the art of Cezanne, Van Gogh, and Matisse, he coined the term "Post-Impressionism." Identify this man who sponsored the Omega Workshops with fellow Bloomsbury Group members Grant and Vanessa Bell.

Answer: Roger Fry

2. Although many of his attributions are no longer accepted today, he was the foremost Renaissance scholar of his day. The author of Venetian Painters of the Renaissance and Sunset and Twilight, he left his Florentine villa I Tatti to Harvard University.

Answer: Bernard Berenson

3. A central figure in vorticism, he was the vociferous editor and principal contributor to the magazine Blast. Literary works he wrote include The Human Age and The Apes of God.

Answer: Percy Wyndham Lewis

7. Answer the following questions about 19th century American history for 10 points each.

1. 5 pts: This organization was founded in 1867 to assist farmers to adapt and cope with life on the plains. They lobbied state legislatures to pass laws regulating freight rates.

Answer: Grange (if they say patrons of husbandry, prompt for more info)

2. 10 pts: What other name is given to the Grange?

Answer: Patrons of Husbandry

3. 15 pts: Name the department of agriculture clerk who formed the Grange.

Answer: Oliver H. Kelley

8. Given a line of verse, identify the metrical foot FTP each. [Reader: stress syllables in **bold font**]

1. "I am **MON**/arch of **ALL** / I **surVEY**... / I am **LORD** / of the **FOWL** / and the **BRUTE**"

Answer: anapest

2. "The **SUN**, / a **SNOW**-/blown **TRAV**/eller, **SANK** / From **SIGHT** / be**NEATH** / the **SMOTH**/ering **BANK**"

Answer: iambus

3. "THIS is the / **FOR**est pri/**ME**val, the / **MUR**muring / **PINES** and the / **HEM**locks..."

Answer: dactyl

9. Identify the following astronomical phenomena associated with stellar evolution F15P each.

1. When a low mass star like our sun evolves and burns most of the hydrogen in its core, hydrogen starts to burn in the shell of gas just outside of the core and the core starts to collapse. When the pressure and the temperature in the core becomes sufficiently high, another element ignites there and is consumed very rapidly, perhaps within an hour. What name is given to this rapid fusion event that occurs under degenerate conditions?

Answer: Helium Flash

2. As the luminosity of a low mass star increases, it may lose mass as parts of its atmosphere are driven into space by radiation pressure. What term, something of a misnomer, is given to these ejections that are sometimes seen surrounding young white dwarfs?

Answer: Planetary Nebulae

10. Identify these composers from their opera on a 10-5 basis.

1. 10: His Bastien und Bastienne was commissioned by Franz Mesmer.

5: His La Clemenza di Tito is based on a libretto by Pietro Metastasio.

Answer: Wolfgang Amadeus Mozart

2. 10: L'Etoile du Nord was his first comic opera.

5: His Les Huguenots was condemned by Wagner and Schumann.

Answer: Giacomo Meyerbeer or Jakob Beer

3. 10: His Suor Angelica forms the middle part of the series of one act opera called Il Trittico.

5: His Turandot, unfinished at the time of his death, was finished by Franco Alfano.

Answer: Giacomo Antonio Michele Secondo Maria Puccini

11. FTP each, identify the authors of these similarly titled works.

1. Letters from an American Farmer (1782)

Answer: Michel-Guillaume Jean de Crevecoeur a.k.a. J. Hector St. John

2. Letters of Jonathan Oldstyle, Gent. (1802-3)

Answer: Washington Irving

3. Letters from a Farmer in Pennsylvania, to the Inhabitants of the British Colonies (1768)

Answer: John Dickinson

12. FTP each, answer these questions about Lesotho.

1. By what name was Lesotho known prior to its independence in 1966?

Answer: Basutoland

2. What is the capital of Lesotho?

Answer: Maseru

3. Around 1820 the ruling dynasty was established by a former commoner who organized the Sotho people. FTP, what was his name, the same taken by the king who died in 1996.

Answer: Moshoeshe

13. Identify the following Biblical folk for the stated number of points.

1. 5 pts: This tax collector of the port of Capernaum wrote one of the four gospels.

Answer: Matthew

10 pts: The fifth judge of Israel, he led an army of 300 men to victory over the Midianites.

Answer: Gideon

3. 15 pts: The son-in-law of Annas, he was the high priest of the Sanhedrin who accused Jesus of blasphemy and delivered him to Pontius Pilate.

Answer: Caiaphas

14. Writers are often incorporate real-life events into their fiction. On a 10-5 basis, identify these battles, which were included in the following works.

1. 10 pt: This battle is the subtitle of the Walter Scott novel Marmion.

5 pt: King James IV of Scotland was killed at this 1513 battle.

Answer: Flodden Field

2. 10 pts: In A Farewell to Arms, Frederic Henry, after *reuperating* erating from wounds, returns to the front just in time to participate in this battle.

5 pts: This 1917 battle took place along the Italian-Austrian border.

Answer: Caporetto

c. 10 pts: Though unnamed in the novel, this is the battle in which Henry Fleming is participating in The Red Badge of Courage.

5 pts: Stonewall Jackson was mortally wounded at this May 2-4, 1863 battle.

Answer: Chancellorsville

15. Identify these pioneers in broadcasting who worked at the same company on a 10-5 basis.

1. 10: He served as director of the U.S. Information Agency from 1961 to 1963. After a pioneering WWII radio broadcast from a liberated Nazi concentration camp, this American said "If I have offended any of you, I am not in the least sorry."

5: In 1948 his Hear It Now radio program became the See It Now TV news program. On the March 9th, 1954 broadcast he attacked Joseph R. McCarthy's investigatory techniques.

Answer: Edward (aka Egbert) Roscoe Murrow

2. 10: In 1979, he wrote As It Happened.

5: In 1928, after six years in the family cigar business, he purchased a network of radio stations. He was president of CBS between 1928 and 1946 and served as board chairman until 1983 and again from 1986 until his death.

Answer: William 'Bill' Samuel Paley

3. 10: Ray Bradbury writes of him: "He taught us then not only how to open our mouths, but how to insert bright pebbles beneath our tongues so that we might fire forth a sentence not only worth listening to but thinking about." Blacklisted during the McCarthy era, he wrote the screenplay for "Lust for Life".

5: Other works include "The Plot to Overthrow Christmas" and a "Prayer for the Seventies". His radio drama On a Note of Triumph aired on all three major networks on VE Day.

Answer: Norman Corwin

16. This bonus tests your knowledge of matrix algebra. Pencil and paper may be handy. Consider the 2 by 2 matrix A having the elements 2 and -2 in the first row and 7 and 3 in the second row.

1. FTP what is the determinant of matrix A?

Answer: 20 (computed as $(2)(3) - (-2)(7)$)

2. Using Kramer's rule or any method you like, invert matrix A. You get 5 points for each element of A inverse. Read your answers in the order row 1, column 1; row 1, column 2; row 2, column 1; and row 2, column 2 and express them as ratios of whole numbers or decimals to the nearest one-hundredth.

Answer: 3/20 or 0.15; 1/10 or 0.10; -7/20 or -0.35; 1/10 or 0.10 (accept equivalent fractions)

17. For the stated number of points, identify these terms from anthropology.

1. 5: The belief that one's own culture is superior to all others.

Answer: ethnocentrism

2. 10: The belief that people are descended from animals, plants or other natural objects and the association of symbols with these natural ancestors.

Answer: totemism

3. 15: An object believed to carry a magical or spiritual force.

Answer: fetish

18. 30-20-10, name the city:

1. This city of over 2 million on the Yangzi River is the capital of Jiangsu province and was the capital of imperial China from the 3^d to the 6^h century and again from 1368-1421.

2. Sun Yat-Sen placed the nationalist capital there in 1912 and Taiwan still considers this mainland city their official capital.

3. When the Japanese captured it in 1937, the resultant killing and brutality was known as the "rape of" this city.

Answer: Nanking or Nanjing

19. Given the name of an animal provide its genus-species name for the stated number of points. For example, if I said man, you would say "Homo sapiens".

1/6: Domestic dog

Answer: Canis familiaris

2. 5: ~~Fruitfly~~

Answer: Drosophila melanogaster

3. 10: Chimpanzee

Answer: Pan troglodytes

4. 10: Lion

Answer: Panthera leo

20. Note these terms from Islam: dawah, hijab, imam, kafir, mullah, shari'ah and zakat. For five points each and a five point bonus for all correct, which is defined as:

1. a religious scholar

Answer: mullah

2. required tithing

Answer: zakat

3. a nonbeliever

Answer: kafir

4. a woman's head covering

Answer: hijab

5. missionary sharing of Islam with nonbelievers

Answer: dawah