

## 1995 ACF Nationals Questions by Chicago A

1. He is physically tortured by his Doctor, who performs medical experiments on him, and is mentally tortured by his sadistic Captain, a self-styled philosopher. When his common-law wife takes up with a drum major, he goes insane, cuts her throat, and then drowns himself as the Captain and Doctor look on. For 10 points, name this title character of a play by Georg Buchner and an opera by Alban Berg.

Answer: Wozzeck (also accept Woyzeck)

2. It was developed by a German chemist in 1889. In this process, crude bauxite is dissolved in sodium hydroxide and it is separated from hydrated iron oxide and other insoluble iron impurities by filtration. Pure hydrated aluminum oxide precipitates when the solution is cooled to supersaturation and seeded with crystals of the product. The water of hydration is removed by calcinating at high temperatures, and then the aluminum oxide is dissolved in cryolite to be electrolyzed. For 10 points, identify this process for the purification of Aluminum (III) oxide.

Answer: Bayer Process

3. Its flag represents its geographical location: a white star representing the island lies just below a yellow stripe representing the equator, against a blue background representing the sea. Despite having virtually no arable land, this nation enjoys a high per capita GNP of nearly \$10,000 due to phosphate mining. For 10 points, name this nation that gained its independence from Australia, New Zealand, and the UK in 1968, and whose capital is located at Yaren.

Answer: Nauru

4. Sweden, the dominant power in Northern Europe, was attacked by an alliance of Denmark, Saxony, and Russia at the start of this war. King Charles XII of Sweden quickly drove the Danes from the war, broke Augustus' power in Saxony, and destroyed almost the whole Russian army fighting at Narva. However, Peter I of Russia later rebuilt his army, drew the Swedes into the Ukraine and defeated them at Poltava. For 10 points, these all occurred in what war of the early eighteenth century which left Sweden with few overseas possessions and signaled the emergence of Russia as a Baltic power?

Answer: Great Northern War

5. Mr. Smith, an Englishman, and Mrs. Smith, his English wife, sit in their English living-room one English evening and have an English conversation that consists entirely of non-sequiturs. They are joined by Mr. and Mrs. Martin, who do not recognize each other as husband and wife, and finally by the Fire Chief, who recites to them the most boring story ever told. For 10 points, name this Theater of the Absurd classic, the first play by Eugene Ionesco.

Answer: The Bald Soprano (also accept La Cantatrice Chauve)

6. Its landmarks include the Pine Hills, the Tallahatchie River, and Issetibbeha's Chickasaw Grant, as well as the towns of Frenchman's Bend, Mottstown, and the county seat, Jefferson. For 10 points, name this Mississippi county inhabited by Compsons, Sutpens, Sartorises, and Snopeses, the fictional setting of many of William Faulkner's works.

Answer: Yoknapatawpha County

7. Work on this building was begun in 1884 and is still not complete, even though its chief architect died 69 years ago. Within its curved, flowing lines are a mishmash of styles: its base is Gothic, below its towers is Spanish art nouveau, and its pinnacles are geometric cubism. For 10 points, name this church, a Barcelona landmark and masterpiece of Antonio Gaudi.

Answer: La Sagrada Familia (also accept The Holy Family)

8. In the early 1960's, it was conjectured that this body was a hollow artificial satellite. It is more likely a captured asteroid. Only ten miles across, it appears only as a dim point of light even in the largest telescopes, and thus it was not discovered until 1877 when it was first sighted by Asaph Hall. For 10 points, name this fearful moon, the larger of the Martian moons.

Answer: Phobos

9. His disapproval with the war crimes trials after World War II was due to of his belief that they were ex post facto law and against American principles. This helped him lose the 1952 Republican nomination for President to Eisenhower; but he would still be remembered as Mr. Republican to most. For 10 points, name this Senator from Ohio and son of a President.

Answer: Robert Taft

10. This philosophical movement holds that both the meaning and truth of any idea is a function of its practical outcome. Fundamental to it is a strong anti-absolutism: the conviction that all principles are to be regarded as working hypotheses rather than as metaphysically binding axioms. A modern expression of empiricism, its founder, Charles Sanders Peirce believed that humans generate beliefs through habit of action. FTP. name this philosophical movement developed in the United States, which is often associated with George Herbert Mead and John Dewey.

Answer: Pragmatism

11. Among the phyla commonly referred to by this name are the priapulids, or "little penis" variety; the pogonophora, or beard variety; and the acanthocephala, or spiny-headed variety. More familiar are the nemertina, or proboscis variety; the nematoda, or round variety; and the platyhelminthes, or flat variety. For 10 points, what are these creatures whose best-known representatives are the annelids?

Answer: worms

12. It was ruled by the Heraclian dynasty from 610 to 711, the Isaurian dynasty from 713 to 802, the Amorion dynasty from 820 to 867, the Macedonian dynasty from 867 to 1056, and the dynasty of the Comneni from 1081 to 1185. For 10 points, name this empire of the Eastern Mediterranean, whose last royal dynasty, the Palaeologi, was toppled in 1453.

Answer: Byzantine Empire (also accept Eastern Roman Empire)

13. A converted Catholic, she was first noticed by Graham Greene who became her patron. Many of her novels and stories, such as "The Ballad of Peckham Rye," "Territorial Rights," and "Memento Mori," deal with her overriding moral vision. For 10 points, identify this British author best known for her tale of an eccentric schoolmistress named Jean Brodie.

Answer: Muriel Spark

14. This name is given to a racial subgroup numbering some 100 million who are characterized by dark skin, a stocky build, and a long head. The name is shared by a family of languages whose members include Gondi, Kennada, Kurukh, Telugu, and Tamil. For 10 points, give this name referring to a subgroup of peoples in India, which sounds like it could be a religious cult.

Answer: Dravidian

15. It is elaborately organized as a medical treatise, dealing with not only various morbid mental states, their causes, symptoms, and cures, but it also is a collection of notable remarks on the human condition in general, compiled from classical, scholastic, and contemporary sources. For 10 points, name this 1621 prose work by Robert Burton.

Answer: The Anatomy of Melancholy

16. He observed that man is a "wanting animal," and that once one desire is satisfied another will soon take its place. In the few individuals in which lower needs have been satisfied, the drive for self-actualization is seen. In his study of self-actualized people he found that they perceive everyday life realistically and without defenses. For 10 points, name this sociologist who wrote Toward a Psychology of Being to describe peak experiences of self-actualized people and who co-founded Humanistic Psychology with Carl Rogers and Rollo May.

Answer: Abraham Maslow

17. Elizabeth Tilton claimed that this man tried to seduce her, so her husband Theodore sued him on a charge of adultery. Mrs. Tilton was not allowed to testify, however, so a hung jury resulted and the preacher on trial was never retried. His father, Lyman, was the founder of the American Bible Society. FTP, identify this influential abolitionist and preacher who was the brother of a famous female novelist.

Answer: Henry Ward Beecher

18. Considered one of the great classic statements of biblical humanism, this essay serves as an introduction to the author's Greek and Latin edition of the New Testament. Published in 1516, it is a strong statement of the author's desire for vernacular translations and his own "philosophy of Christ." For 10 points, identify this essay by Erasmus that takes its name from the Greek for "summons."

Answer: Paraclesis

19. It is significant because it is a conserved quantity, much like mass and energy. In fact, the amount of it depends on the speed of rotation, mass, and mass distribution of an object or system. Its magnitude and direction are conserved for isolated systems, and spinning tops and gyroscopes remain upright because its direction is conserved. FTP, name this measure of the energy of a rotating object or system of objects.

Answer: Angular Momentum

20. He was in the 1913 Erste Herbstsalon (First Autumn Exhibition) with many leading Expressionists. In 1914 he became associated with Guillaume Apollinaire's circle of artists. In 1915, he began arranging objects according to chance, and in 1916 he co-founded Dada, contributing poetry and illustrations to all Dada publications. With his future wife, Sophie Taeuber, he began making large collages of geometric cutouts. FTP name this artist and poet who is best known for inventing "organic creations," composed of torn pieces of colored paper arranged randomly.

Answer: Jean Arp

21. In 1936, he was serving as governor of the Canary Islands when he received news that national elections had brought a left-wing coalition to power. Joining the insurgency of Jose Sanjurjo, he crossed the straits of Gibraltar, and after three years of bloody fighting he had toppled the Republican government and made himself dictator. For 10 points, name this leader of Spain's Falange party.

Answer: Francisco Franco

22. One of America's most gifted modern playwrights, he has been praised for his sensitive and moving presentations about gay life. His latest play "Love! Valor! Compassion!" deals with a series of gay men sharing a beach house while "Lips Together, Teeth Apart" deals with two married couples in the same house. FTP, name this author best known for his two person play "Frankie and Johnny in the Clair de Lune."

Answer: Terrance McNally

23. The word for "father" is "pater" in Latin, "padre" in Spanish, and "pitar" in Sanskrit. These words sound similar because they share a common origin. For 10 points, what is the term given to such groups of similar-sounding words in different languages which share a common origin?

Answer: cognates

24. Let's say you flip a fair coin 100 times. On each flip, the coin can land either heads or tails; the probability of landing heads is the same for all flips, and each flip is independent of the other flips. Since these three conditions are satisfied, the random variable denoting the number of heads out of the 100 flips will follow, For 10 points, what probability distribution?

Answer: Binomial Distribution

25. This system begins with the I (eye) gene continually making repressors which bind to the operator region of the DNA, blocking the RNA polymerase bound to the promoter from transcribing the three structural genes, Z, Y, and A. When lactose is present, it binds to the repressor, changing the repressor's shape so that it can no longer bind to the operator. The RNA polymerase is then able to transcribe Z, Y, and A to produce three enzymes. For 10 points, this describes what system of lactose metabolism?

Answer: Lac Operon

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1. Name the person, 30-20-10.

1. When he died in 1978, he left behind eighty still undeciphered notebooks written in a medieval German shorthand, which are believed to be a treatise on theology and demonology.

2. In 1938, he proved that the Cantor Continuum Hypothesis was consistent with the axioms of set theory, and after emigrating to the USA in 1948, he devised several cosmological theories of the universe.

3. This Austrian logician is best-known for his doctoral dissertation, "On Formally Undecipherable ~~Undecipherable~~ <sup>Undecidable</sup> Propositions of Principia Mathematica and Related Systems."

Answer: Kurt Godel

2. Given a description of a book of the Apocrypha or the Deuterocanonical book, name it for 10 points each.

1. A history of the revolt from the accession of Antiochus IV in 175 BC to the death of Simon the High Priest in 132 BC.

Answer: First Maccabees

2. An addition to Daniel, it is a collection of prayers and hymns based on the experiences of his friends who were thrown into the furnace.

Answer: Song of the Three Jews (accept Song of Three)

3. God sends Raphael to assist this man in exile in Nineveh. The title character's son marries Sarah, who was also aided by Raphael.

Answer: Tobit

3. Identify the following plays by George Bernard Shaw: ten points if you can name them from a list of characters alone, five points if you need a plot description.

1. 10 pts: Andrew Undershaft, Lady Britomart Undershaft

5 pts: A pacifist Salvation Army officer confronts her father, a weapons manufacturing tycoon.

Answer: Major Barbara

2. 10 pts: Robert de Baudricourt, Cauchon, Warwick

5 pts: A French peasant girl becomes a military hero, gets burned, and is canonized.

Answer: Saint Joan

3. 10 pts: John Tanner, Ann Whitefield, the Devil

5 pts: A weak man is pursued by an extremely determined woman, then has a dream about Don Juan in Hell.

Answer: Man and Superman

4. For five points each, given the leader of a rebellion or conspiracy from English history, name the monarch against whom it was directed.

1. Guy Fawkes

Answer: James I

2. Perkin Warbeck

Answer: Henry VII

3. Wat Tyler

Answer: Richard II

4. Jack Cade

Answer: Henry VI

5. Charles Edward Stuart

Answer: George II

6. Simon de Montfort

Answer: Henry III

5. Identify the sculptors responsible for the following works, for five points each.

1. The bronze doors on the Florence Baptistry

Answer: Lorenzo Ghiberti

2. Rape of Proserpina

Answer: Giovanni Lorenzo Bernini

3. Monument to Victor Hugo

Answer: Auguste Rodin

4. The Kiss (1908)

Answer: Constantin Brancusi

5. simple elongated forms, such as Caryatid

Answer: Amadeo Modigliani

6. The Couple

Answer: Alberto Giacometti

6. Identify the following Supreme Court Justices for the stated number of points.

1. For 10 points each, name two of the three Chief Justices who also served as Secretary of the Treasury.

Answer: Roger Taney, Salmon Chase, Fred Vinson

2. For 10 points, one associate justice served as Secretary of the Treasury before serving on the Court. Name this man who served under Van Buren and Tyler in the Treasury role.

Answer: Levi Woodbury



7. Identify the following Euripides plays for 5, 10, and 15 points.

1. 5 pts: One of the most powerful indictments of war ever written, it portrays the Greeks as cruel and cowardly. It takes place after the death of Priam and Hector, and mostly relates the fate of Priam's family, but Helen briefly appears to demonstrate the futility of the war fought for her.

Answer: The Trojan Women

2. 10 pts: The title character enrages Aphrodite by scorning the love of women. Aphrodite gets revenge by causing Theseus' wife Phaedra to fall in love with him. Phaedra ends up killing herself and leaves a note for Theseus saying the title character tried to violate her. Theseus has him killed.

Answer: Hippolytus

3. 15 pts: It recounts the successful plea of the mothers of the seven against Thebes that Theseus, King of Athens, bury the bodies of their sons. It is also the name of an Aeschylus work.

Answer: The Suppliant Women

8. Identify the following plankton for ten points each.

1. Members of this phylum are heterotrophic marine protists with characteristic pore-studded shells called tests.

Answer: Foraminifera (accept Forams)

2. Members of this phylum illustrate the impossibility of distinguishing plants from animals among protists. About a third of the genera in this phylum have chloroplasts and are fully autotrophic. Other genera are fully heterotrophic.

Answer: Euglenophyta (accept Euglena)

3. These organisms are photosynthetic and unicellular with unique double shells made of opaline silica which are often strikingly and characteristically marked. A type of earthy material contains layers of shells of these organisms.

Answer: diatoms (accept Chrysophyta or Bacillariophyta)

9. Like continents, neurological disorders often start and end with the letter "A." For 10 points each, name these neurological disorders starting and ending with the letter "A":

1. A deficit in language ability

Answer: aphasia

2. The inability to coordinate voluntary muscular movement

Answer: ataxia

3. The inability to recognize common objects. A famous case is the title character of Oliver Sacks' The Man Who Mistook His Wife for a Hat.

Answer: agnosia

10. Identify the following Latin American civilizations for ten points each.

1. Mesoamerica's first truly complex culture, it centered on the southern gulf coast of Mexico. By 1200 B.C. it was fully developed at San Lorenzo, but by 900 B.C. its power had shifted to La Venta.

Answer: Olmec

2. They dominated central Mexico from the 10th to mid-12th century A.D. They moved to the Mexican valley after the collapse of Teotihuacan. The Aztecs claim to have descended from them.

Answer: Toltec

3. This kingdom stretched from near the present border between Peru and Ecuador to just north of Lima. It ruled from about 1000 A.D. until it fell to the Inca in about 1450-1470.

Answer: Chimu

11. Answer these questions about mountains for the stated number of points.

1. 5 pts: Name the 15,771 foot high Alpine peak that is the tallest mountain located indisputably in Europe.

Answer: Mont Blanc

2. 10 pts: Name the 18,510 foot high mountain, the tallest in the Caucasus, that is considered by some to be the tallest in Europe, but considered by others to be in Asia.

Answer: Elbrus

3. 5 pts: Name the 24,590 foot high mountain that was the tallest in the former Soviet Union.

Answer: Communism Peak

4. 10 pts: Name the republic in which Communism Peak is located.

Answer: Tadjikistan

12. 30-20-10 Name the American author from works.

1. Monsieur Beaucaire
2. Penrod and Seventeen
2. Alice Adams and The Magnificent Ambersons

Answer: Booth Tarkington

13. Name these characters from Greek mythology, all of whose names begin with "Eury" for the stated number of points.

1. 5 pts: This nymph married Orpheus, but was killed by a scorpion at their wedding.

Answer: Eurydice

2. 10 pts: A Gorgon and sister of Medusa

Answer: Euryale

4. 15 pts: In the Odyssey, he is Odysseus' second-in-command, and commits the sacrilege against Helios which leads to the death of the entire crew.

Answer: Eurylochus

14. Identify the following concerning the establishment of a national income tax in the United States for the stated number of points.

1. 10 pts: This 1894 tariff, which was passed over President Cleveland's veto, contained a controversial clause permitting the federal government to levy a tax on all incomes above \$4,000 a year.

Answer: Wilson-Gorman Tariff

2. 10 pts: In this 1895 Supreme Court case, the court declared unconstitutional this clause from the Wilson-Gorman Tariff.

Answer: Pollock v. Farmer's Loan and Trust Company

3. 5 pts: In 1909, the Pollock decision was superseded by what amendment to the Constitution?

Answer: Amendment 16

4. 5 pts: In what year was the 16th Amendment passed?

Answer: 1913

15. Answer these questions about ancient Rome for ten points each.

1. On which of the famous seven hills of Rome did Romulus and Remus allegedly found the city?

Answer: Palatine

2. Name the successor of Romulus who was king from 715-673 B.C. and under whom the foundations of Roman law and religious practices were started.

Answer: Numa (Numa Pompilius)

3. This fourth King of Rome ruled from 641-616 B.C., and he is credited with founding the plebeian class as well as building the first bridge across the Tiber.

Answer: Ancus Marcius

16. Identify the following major philosophical works for ten points each.

1. In this treatise, Aristotle claims that happiness is the goal of life. However, pleasure, fame, and wealth will not bring one happiness, which is achieved only through the contemplation of philosophic truth.

Answer: Nicomachean Ethics

2. This political treatise by Jean-Jacques Rousseau states that no man has any natural authority over another, and that political association requires reciprocal obligations between all members.

Answer: The Social Contract

3. In this philosophical narrative, Nietzsche develops his doctrine of the Ubermensch. The quasi-biblical style he uses underlines the prophetic character of his ideas.

Answer: Thus Spake Zarathustra

17. Identify the composers of the following for five points each and a 5 point bonus for all 5 correct.

1. Billy the Kid

Answer: Aaron Copland

2. Romeo and Juliet (1936)

Answer: Sergei Prokofiev

3. Sebastian

Answer: Gian Carlo Menotti

4. Faust (1859)

Answer: Charles Gounod

5. The Creatures of Prometheus

Answer: Ludwig von Beethoven

18. Now, for a truly miscellaneous bonus. Write down the following list: English metaphysical poet, internet miscreant, Latin American revolutionary, OJ trial witness, professional bowling hall-of-famer, 18th century chess grandmaster, cast member of "Mama's Family." Now, for five points each, given a name, tell which item from the list would best describe that person.

- |                      |                              |
|----------------------|------------------------------|
| 1. Andre Philidor    | Answer: <u>chess</u>         |
| 2. Henry Vaughan     | Answer: <u>poet</u>          |
| 3. Jake Baker        | Answer: <u>internet</u>      |
| 4. Bernard O'Higgins | Answer: <u>revolutionary</u> |
| 5. Mark Fuhrman      | Answer: <u>OJ witness</u>    |
| 6. Ken Berry         | Answer: <u>Mama's Family</u> |

19. Identify the following Sinclair Lewis novels for ten points each.

1. A brazen ex-football player enters the ministry and becomes a successful evangelist with a large midwestern congregation.

Answer: Elmer Gantry

2. A real estate dealer lives an average existence in the town of Zenith.

Answer: Babbitt

3. Berzelius Windrip is elected President of the United States and he creates a fascist dictatorship and arrests his main critic, Doremus Jessup, who escapes to Canada to form a resistance group.

Answer: It Can't Happen Here

20. Many reactions and reagents in organic chemistry have been named after the chemists who discovered them. For 10 points each, give the eponymous names for the following reactions and reagents.

1. These reagents are formed by the insertion of a Magnesium atom into an alkyl halide, between the alkyl group and the halogen atom. They can open ethylene oxide to form alcohols and they can add carbon chains to molecules in organic synthesis.

Answer: Grignard reagents

2. This formation of ethers via an  $S_N2$  pathway involves an alkoxide ion attacking an alkyl halide, resulting in a bond formed between oxygen and the alkyl group and the release of a halide anion.

Answer: Williamson ether synthesis

3. Two answers required (each are worth five points). In this reaction, aromatic rings are alkylated by an alkyl halide reagent in the presence of an aluminum halide catalyst.

Answer: Friedel-Crafts alkylation

21. Identify the following art movements or schools from a short list of artists associated with it.

- |   |                                       |
|---|---------------------------------------|
| 1. Ernest Lawson, Everett Shinn, Maurice Pendergast               | Answer: <u>Ashcan</u> school          |
| 2. John Frederick Kensett, Jasper Cropsey, Albert Bierstadt       | Answer: <u>Hudson River</u> school    |
| 3. Georges Michel, Constant Troyon, Jules Dupre                   | Answer: <u>Barbizon</u> school        |
| 4. Man Ray, Yves Tanguy, Andre Masson                             | Answer: <u>Surrealism</u>             |
| 5. Francois Boucher, Jean Baptiste Chardin, Jean Baptiste LeMoine | Answer: <u>Rococo</u>                 |
| 6. Adolph Gottlieb, Barnett Newman, Theodoros Stamos              | Answer: <u>Abstract Expressionism</u> |

22. Identify the following former Cabinet officials after one clue for 10 points, after two clues for 5 points.

1. 10 pts: After the forced resignation of H.R. Haldeman, this general became Nixon's Chief of Staff.

5 pts: In 1981, he became Ronald Reagan's first Secretary of State, and in 1988 he lost a bid for the Republican Presidential nomination.

Answer: Alexander Haig

2. 10 pts: This man held two Cabinet posts under Nixon, serving as Secretary of Labor from 1969-1970 and Secretary of the Treasury from 1972-1974.

5 pts: In 1982, he replaced Haig as Secretary of State.

Answer: George Schultz

3. 10 pts: From 1973 to 1975, he served as Secretary of Health, Education, and Welfare.

5 pts: From 1981 to 1987, he served as Secretary of Defense.

Answer: Casper Weinberger

23. William Safire's new book Lend Me Your Ears is a collection of some of the greatest speeches in history. For 10 points each, when given the quotation, name the American who said it.

1. "I would remind you that extremism in the defense of liberty is no vice!"

Answer: Barry Goldwater

2. "Frederick, is God dead?"

Answer: Sojourner Truth

3. "I am not going to sit here and be idle spectator to the diminution, the subversion, the destruction of the Constitution."

Answer: Barbara Jordan

24. Pencil and paper ready. Balance the following chemical equations for ten points each. You will be given ten seconds for each.

1.  $\text{Al} + \text{HCl} \rightarrow \text{AlCl}_3 + \text{H}_2$

Answer:  $2\text{Al} + 6\text{HCl} \rightarrow 2\text{AlCl}_3 + 3\text{H}_2$

2.  $\text{NH}_3 + \text{O}_2 \rightarrow \text{NO} + \text{H}_2\text{O}$

Answer:  $4\text{NH}_3 + 5\text{O}_2 \rightarrow 4\text{NO} + 6\text{H}_2\text{O}$

3.  $\text{CH}_3\text{COOH} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$

Answer:  $\text{CH}_3\text{COOH} + 2\text{O}_2 \rightarrow 2\text{CO}_2 + 2\text{H}_2\text{O}$

25. Given the pseudoscientific theory, name the crackpot author for five points and the best-selling book for ten, for a total of fifteen points possible for each.

1. This 1968 book theorized that ancient astronauts from other planets visited Earth and helped build the pyramids.

Answer: Chariots of the Gods by Erich von Daniken

2. This 1950 book proposed that ancient scriptures were accurate histories of catastrophic events in Earth's history. For example, the Biblical parting of the Red Sea was caused by enormous tides resulting from the close approach of Venus with the Earth.

Answer: Worlds in Collision by Immanuel Velikovsky

26. Name the nation, 30-20-10.

1. Its flag is divided diagonally into triangles; the upper triangle is red and depicts a bird of paradise.

2. The lower triangle is black and depicts the southern cross.

3. This nation united former German and Austrian territories and gained its independence in 1975.

Answer: Papua New Guinea