## 1996 ACF Nationals Questions by ACFNTC #3B

1. Concluded on June 7, 1494, it was negotiated because of Paul II's dissatisfaction with a plan negotiated by the Apostolic See. Calling for the movement of the Papal line of demarcation 270 leagues further west, the shift made possible Pedro Cabral's claim of Brazil for Portugal. FTP identify this treaty that split the New World between Portugal and Spain.

Answer: Treaty of <u>Tordesillas</u>

2. The author's highly successful dramatic adaptation of this novel was produced in New York in 1950. As a chorus to the title character's thoughts, one hears her six year old cousin and the black cook. A perceptive study, it tells the story of the motherless thirteen year-old Frankie who wants to accompany her brother and his wife on their honeymoon. FTP name this 1946 novel by Carson McCullers.

Answer: The Member of the Wedding

- 3. Centromeres separate and migrate towards opposite poles of the spindle fiber. As the two sets of single-stranded chromosomes segregate near the poles, cytokinesis begins. FTP identify this phase of cell division, the third in mitotic cell division.

  Answer: anaphase
- 4. In 1822 the Royal Philharmonic Society in London paid for the right to be the first to hear this composition. The composer instead decided upon Berlin for the premiere, but changed his mind when he saw an open letter from Viennese cultural luminaries begging him to reconsider. At its May 7, 1824 debut the featured soprano got sick and the police refused to allow Beethoven to charge admission, so the performance only netted 420 florins which prompted the irate composer to accuse his secretary Anton Schindler of theivery. FTP identify this work, opus 125 in D minor, which features a variation on Schiller's "Ode to Freedom".

Answer: Beethoven's 9th Symphony or Symphony No. 9 or Choral Symphony

5. It is only a fragment, consisting of five parts: the Yasna and the Vispered which are chiefly liturgical, the Vendidad which contains the laws, the Yashts which tells the stories of gods, and the Khordah, a book of private devotions. Dating from the third or fourth century AD, it is a compilation of written and oral traditions over a millennia old. FTP identify this religious text of Parsees and Zoroastrians.

Answer: Zend-Avesta

6. It was fought between October 23 and November 5, 1942. After a devastating artillery barrage, the British managed to break through the Italian-held center. Losing 30,000 troops to the British as prisoners of war, the Axis retreated from a position 70 miles west of Alexandria to Tunisia. FTP identify this decisive World War II battle in North Africa in which Bernard Montgomery defeated Erwin Rommel.

Answer: Battle of El Alamein

7. It was proposed in 1823 and immediately spurred controversy among physicists and astronomers. The expansion and finite age of the universe helps resolve the discrepancy it raises. It claims that every line of sight should eventually end on the surface of a star, and, therefore, the whole night sky should look like the surface of a star. FTP identify the paradox that arises from the empirical observation that it is dark at night.

Answer: Olbers' Paradox

8. In 1912 he walked from Illinois to New Mexico preaching his "Gospel of Beauty" and exchanging his poems collected in Rhymes to be Traded for Bread for meals and shelter. His work dealt mainly with American subjects and heroes, with patriotism and a mystic faith in the earth and in nature. Plagued by poverty and depression, this poet of "The Ghost of the Buffaloes" and "The Santa Fe Trail" ultimately committed suicide by drinking poison. FTP identify this man whose best known poems include "General William Booth Enters into Heaven" and "The Congo".

Answer: Vachel Lindsay

- 9. Cardac of Llancarfan is the first to report of her abduction by Meleagant. The Welsh Triads say that she is the "most faithless" of the faithless wives of Britain. Dying at the nunnery at Almesbury, she shares a tomb at Glastonbury Abbey with her husband. The daughter of King Leodegraunce, her dowry included a thousand trained horses in addition to the Round Table. FTP name this woman, the paramour of Sir Launcelot and the wife of King Arthur.
  Answer: Guinevere
- 10. In 1886, she joined the National American Women Suffrage Association and in 1900 was chosen by Susan B. Anthony as her successor. It was she who devised the so called "winning plan" that secured the passage of the 19th amendment nationally rather than on a state by state basis. FTP name his woman who following the ratification of the 19th amendment founded the League of Women voters to educate women politically.

Answer: Carrie Chapman Catt

11. The work was originally published with two interludes: "Indian Summer of a \_\_\_\_\_" and "Awakening". A second series of novels entitled the Modern Comedy consists of two more interludes along with the novels The White Monkey, The Silver Spoon, and Swan Song. The End of the Chapter is a third trilogy in the series. FTP what name is given to this collection of novels that strictly consists of The Man of Property, In Chancery, and To Let.

Answer: The Forsyte Saga

12. He was assasinated in 465 BC by his chief minister, Artabanus. He was the grandson of Cyrus the Great through his daughter Atossa and the son of Darius I, who designated him crown prince even though he was not his eldest son. FTP identify this Persian ruler whose most important action was his invasion of Greece that ended in defeat at the battle of Salamis in 480 BC.

Answer: Xerxes I

13. A professor of mechanics at the Ecole Polytechnique, his productivity was limited due to ill health. However, he was the first to give the exact modern definitions of kinetic energy and work in a textbook published in 1829. FTP identify this French scientist who in 1835 took up the matter of motion on a spinning surface and investigated experimentally and theoretically the "force" that bears his name.

Answer: Gaspard de Coriolis

- 14. Among the problems of this type are Pert Planning, Bin Packing, Three-Coloring, and The Travelling Salesman. Since these problems can be reduced to one another in polynomial time, a proof that one of these problems is tractable would essentially be a proof that they are all tractable. For ten points, name this set of problems, defined by the fact that their upper bounds suggest they are intractable, while their lower bounds suggest they are tractable.

  Answer: Nondeterministic Polynomial Complete or NP-Complete
- 15. This country contains the mouth of the Kura River, and much of its surrounding valley is below sea level. The country is not contiguous: a portion called Nakhichevan is separated from the rest. Its oil fields were the incentive of the invading Germans in World War II, who were stopped short at Stalingrad. FTP, name this country which covets another region, called Nagorno-Karabakh, and has battled with Armenia for it.

Answer: Azerbaijian

16. He extols the victory of human dignity over the lust for power in The Devil's Yard and talks about the Turkish occupation of his native land in his Bosnian Story. FTP identify this author who symbolically connected East and West with his The Bridge on the Drina, the winner of the 1961 Nobel Prize for Literature.

Answer: Ivo Andric

17. He received his artistic training from his father, N.C., a noted book and magazine illustrator. His early watercolors were painted in a fluid manner resembling that of Winslow Homer, but he he soon adopted the more accurate "dry brush" technique. FTP identify this painter who drew his subjects from two locales: Chadd's Ford, Pennsylvania and Cushing, Maine, where he set his most famous work, "Christina's World".

Answer: Andrew Wyeth

18. This rule is violated when peroxides are present in the reaction chamber or a boron hydride is used in place of an akyl halide for the addition of hydrogens to an alkene. FTP what is this important rule of organic chemistry that states than when an unsymmetrically substitued alkene reacts with a hydrogen halide, the carbon with the greater number of hydrogen substituents will gain the hydrogen while the halogen atom will go to the one with fewer hydrogens.

Answer: Markovnikov's rule

19. Midge is a commercial artist who is trying to develop an ad campaign for a bra. Judy Barton is a red haired shop girl who's a dead ringer for the dead wife of Gavin Elster. After dangling from a drainpipe by his fingertips, Detective John "Scottie" Ferguson develops a severe case of acrophobia. These are characters from, for 10 pts., what 1958 Alfred Hitchcock suspense thriller, named for Ferguson's condition?

Answer: Vertigo

20. Keynes interpreted this law to mean a condition of equilibrium, rather than an absolute truism. For accounting purposes of a nation's GDP, it must be true, since national income, output and expenditure are, by definition, equal. This law must also be true in a barter economy, as the supply of a good constitutes a demand. FTP what is this economic law, devised by a 19th century French economist, which says that "supply creates its own demand"?

Answer: Say's Law

It is found in plants, occurring in grains scattered throughout the cytoplasm. Most naturally occurring ones are mixtures consisting of about 70 per cent amylopectin and 30 per cent amylose. FTP what is this type of plant carbohydrate consisting of chains of glucose?

Answer: starch or starches

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1. Answer these questions about a famous poet for the stated number of points.

1. On the nineteenth centenary of his death, Tennyson remarked, "I salute thee, Mantovano, / I that loved thee since my day began, / Wielder of the stateliest measure / Ever moulded by the lips of man." Identify the Roman born in 70 BC to whom Tennyson referred FTP.

Answer: Publius Vergilius Maro

2. Though the poet's will ordered his unfinished magnum opus destroyed, Augustus countermanded the provision and ordered Varius and Tucca to edit the text. FFP identify this twelve book epic.

Answer: Aeneid

3. The fourth and most famous of these was interpreted by medieval thinkers as a prophecy of the birth of Christ. F15P identify this collection of ten pastoral poems written from 43 to 37 BC.

Answer: Bucolics or Ecloques

2. Identify the operas in which you would find the following sets of characters for the stated number of points.

1. 10 pts: Daland, Eric, Senta

Answer: Flying Dutchman X

2. 5 pts: Nedda, Canio, Tonio

Answer: I Pagliacci /

3. 10 pts: Rinato, Ricardo of Warwick, governor of Boston

Answer: A Masked Ball or X

4. 5 pts: Guglielmo, Don Alfonso, Dorabella, Ferando

Answer: Cossi Fan Tutti or They All Do It X

- Let's see if you can answer these questions significantly easier than Vishnu's graduate statistical mechanics homework FTP each.
- 1. An adiabatic process is one in which the system undergoes no heat exchange with its surroundings. What quantity, equivalent to the change in heat over the temperature for a reversible process is, therefore, kept constant?
- Answer: entropy X

  2. It is defined as the partial derivative of energy with respect to entropy. This quantity is occasionally negative for certain processes.

Answer: temperature X

3. This thermodynamic quantity can be expressed as the sum of energy plus the product of pressure and volume minus the product of temperature and entropy.

Answer: Gibb's Free Energy or Free Enthalpy or Gibbs function 🛠

4. Answer the following questions about the Pilgrims for the stated number of points.

1. First, FTP from what Nottinghamshire village did the Pilgrims set sail to Leiden?

Answer: Scrooby

2. One of the authors of an account of the settlement of Plymouth known as <u>Mourt's Relation</u>, he also wrote the <u>History of Plymouth Plantation</u>. FFP name this man who was governor of the colony from 1621 until his death in 1657 except for a five year period in which he refused re-ejection.

Answer: William Bradford V

3. Though governor for a long time, William Bradford was not the first leader of the Plymouth colony. What other man, who died within six months of entering office, holds this distinction?

Answer: John Carver

5. Identify the philosopher, 30-20-10.

- 1. Commentaries on his work appear on Everyman Leopold Bloom's bookshelf in <u>Ulysses</u>. While he was in Rijnsburg, he corresponded with Robert Boyle about fluid mechanics and asked Henry Oldenburg about Edmund Halley's research on comets.
- 2. Influenced deeply by Descartes, he makes use of Dutch sources including his Leiden professors Franco Burgersdijck and Adrian Heereboord. Among the <u>Opera Posthuma</u> published shortly following his death are the treatises <u>Tractatus</u> <u>Politicus</u> and <u>Tractatus</u> de Intellectus <u>Emendatione</u>.
- 3. George Eliot spent three years of her life translating his masterpiece <u>Ethics</u>. The pantheist nature of the deity he conceived tangentially influenced such twentieth century thinkers as Santayana, Einstein, and Hawking.

Answer: Baruch Spinoza (not Spinoza's God)

- 6. Answer the following questions about fruit flies for the stated number of points.
- 1. First FFP what is the genus/species name for the common fruit fly?

Answer: Drosophila melanogaster

2. Next FFP, to what order does the fruit fly belong?

Answer: Diptera

3. FTP what Kentucky born Professor of Experimental Zoology at Columbia and Caltech established a chromosome theory of heredity through his studies of the fruit fly?

Answer: Thomas Hunt Morgan

4. Finally, Thomas Hunt Morgan discovered that genes lying together on the same chromosome tend to be inherited together. FTP what event in meiosis is used to describe the destruction of these linkage groups by the exchange of genes between homologous chromosomes?

Answer: crossing-over >

7. Name these 20th century British Prime Ministers FTP each.

1. The head of a Liberal government from 1908-1915, he formed and headed a war coalition from 1915-1916. He was ousted by Lloyd George for failing to pursue the war in Europe with sufficient vigor.

Answer: Henry Asquith

2. This conservative statesman succeeded Bonar Law as premier being preferred over Curzon. He skillfully avoided a party split with his India Act of 1935, but his policy of non-intervention in Spain was widely regarded as a betrayal of the League of Nations. Identify this man who resolved the constitutional crisis that culminated in the abdication of Edward VIII.

Answer: Stanley Baldwin

3. He overreacted to Nasser's seizure of the Canal Company and nationalization of the Suez Canal. Ordering British and French forces in to liberate the Canal Zone, American displeasure, Arab nationalism, and world opinion forced him to ignominiously withdraw. The former Foreign Secretary to Churchill resigned in 1957.

Answer: Anthony Eden

8. 10: "The sea is calm tonight./The tide is full, the moons lies fair".

5: Matthew Arnold

Answer: <u>Dover Beach</u> V

- 2. 10: "Five years have passed; five summers, with the length / Of five long winters! and again I hear / These waters, rolling from their mountain springs / With a sweet inland murmur."
  - 5: "Lines written a few miles above Tintern Abbey on revisiting the banks of the Wye during a tour"

Answer: William Wordsworth ✓ (

3. 10: "When to the sessions of sweet silent thought / I summon up remembrance of things past / I sigh the lack of many a thing I sought, / And with old woes new wail my dear time's waste."

5: "Sonnet 30"

Answer: William Shakespeare /

- 9. Answer the following about the wonderfully inbred family tree of the Greek gods for 10 pts each.
- 1. She is the mother by Zeus of Artemis and Apollo.

Answer: <u>Leto</u> ∨

2. Leto was Zeus' cousin as Leto was the offspring of the Titan Coeusand what other Titan?

Answer: Phoebe X

3. Zeus' unions with his sister Hera resulted in Ares, Hephastus, andthis goddess of youth.

Answer: Hebe

10. 30-20-10 Identify the seventeenth century scholar.

1. A patron of Rembrandt, his opera include The Love of Painting and The Pastoral Comedy.

- 2. Proclaiming that "the world is my country, and science is my religion," in 1691 he determined that the equation for a hanging chain was a catenary curve. He published the first formal thesis on probability theory, "On Reasoning in Games of Dice".
- 3. In 1672, he introduced Leibniz to mathematics. The discoverer of Titan, his greatest works are his "Treatise on the Pendulum Clock" and "Treatise on Light" which introduced the wave model.

Answer: Christiaan Huygens

11. Identify the Italian author from two of his works FFP each. Answer: Dante Alighieri 1. De Monarchia, La Vita Nuova Answer: Gabriele D'Annuzio × 2. The Flame of Life, La Giaconda Answer: Giovanni Boccaccio V 3. Filocolo, Filostrato Answer: Salvatore Quasimodo 😾 4. Sunken Oboe, Scent of Eucalyptus Answer: Alessandro Manzoni 🗸 5. I Promessi Sposi, Observations on Catholic Morals Answer: Luigi Pirandello 6. The Late Mattia Pascal, Tonight We Improvise! 12. Give the name of the Verdi opera from a list of characters FFP each. Answer: Rigoletto 1. The Duke of Mantua, Gilda, Sparafucile Answer: Il Travatore V 2. Count di Luna, Manrico, Azucena Answer: La Traviata 3. Flora Bervoix, Alfredo Germont, Violetta Valery Answer: Un ballo in maschera 4. The Governor of Boston, Renato, Amelia or The Masked Ball 5. Amonasro, Amneris, Radames Answer: Aida 6. Dr. Caius, Anne, Fenton Answer: Falstaff

13. Art works often depict important historical events. Given a description of the masterpiece, identify the event shown for the stated number of points.

1. Crafted in the eleventh century, it features such dubious events as Harold II getting blinded by an arrow. Name the event celebrated by this tapestry.

Answer: Battle of Hastings 1'

2. FFP name the ancient capital of the Basques whose destruction by saturation bombing was immortalized in a painting unveiled at the 1937 Paris International Exposition.

Answer: Guernica 3. Albrecht Altdorfer tried to follow ancient descriptions of the actual number and kinds of combatants in this battle. The victorious Alexander and the defeated Darius are lost in the panoramic bird's eye perspective. FTP name the battle.

4. This painting by Jacques Louis David shows Leonidas impaled upon a spear. FTP, what 480 BC battle won by Xerxes is depicted in this painting?

Answer: Battle of Thermopylae

Answer: Battle of Issus

14. Name the saint given his bizarre martyrdom FTP each.

1. Born in Spain, he became a deacon in Rome. In the persecution of Valerianus, he was stretched on the rack and condemned to be broiled. While being roasted, he made the famous joke: "Turn me over; I think I'm done on this side." Answer: St. Lawrence or St. Laurentius V

2. Fleeing from Rome under the reign of Diocletian, he spread Christianity while working as a shoemaker in Soissons. Martyred with his brother by being thrown into molten lead, the battle of Agincourt was fought on his feast day. Answer: St. Crispin or St. Crispinian

3. This Syrian bishop was first disembowelled and then burned alive. He survived the torture and sailed to Italy where he died. The glowing electrical discharge at the tips of ships masts during stormy weather is named after him. Answer: St. Elmo V

15. Identify the Spanish playwright FTP each.

1. Educated a Jesuit, he wrote more than 120 plays and some 70 autos sacrementales. His masterpieces include The Mayor of Zalamea, Life is a Dream, and The Great Theatre of the World.

Answer: Pedro Calderon de la Barca √

2. Nicknamed the Prodigy of Nature by Cervantes, his contemporary biographer Montalban reports that he wrote over 1800 plays. His works include the plays Peribanez and The King, the Greatest Alcalde as well as the prose romance La Dorotea.

Answer: Lope Felix de Vega Carpio 3. A mathematician by training and the minister of finance who founded the Bank of Spain, he turned to writing during a brief period of exile in 1874. Dramatist of The Great Galeoto, he became the first Spaniard to win the Nobel Prize in Literature.

Answer: Jose Echegaray y Eizaguirre

16. Answer these questions about astronomy FTP each.

1. This variable star is the second/brightest in Perseus and is a double variables star with a period of about 68 hours.

Answer: Algol

2. Having nuclei that strongly dominate the total light from the body, these galaxies are very similar to quasars. Identify this class of active galaxies.

Answer: Seyfert Galaxies /

3. The Milky Way and the Andromeda Galaxy belong to the Local Group. The Local Group is currently heading towards what larger cluster of galaxies?

Answer: Virgo Supercluster

17. The Industrial Revolution unleashed a multitude of new inventions. Identify these inventors for the stated number of

1. 5 pt: In 1765 he built an improved model of the steam engine to which he added a separate condenser.

Answer: James Watt 1

2. 10 pt: In 1846 this American patented the lock-stitch sewing machine.

Answer: Elias Howe

5 pt:

3. 10 pt: In 1764, this Englishman introduced the spinning jenny, a machine that could spin from 8 to 120 threads at once.

Answer: James Hargreaves

18. Let's see what you know about Antarctic geography. Answer these questions FTP each.

1. Located in the Ellsworth Mountains, it is named for a US politician. Identify this highest Antarctic peak first scaled by Nicholas Clinch in 1966.

Answer: Vinson Massif

2. Named for the British explorer who discovered the North magnetic pole, it is the largest of the Antarctic ice shelves. Answer: Ross Ice Shelf

3. Situated between the Antarctic Peninsula and Coats Land, this arm of the Atlantic Ocean is named for the man who discovered it in 1823. The vast Ronne and Filchner ice shelves are at the head of the sea.

Answer: Weddell Sea

19. Identify these American film directors from the clue FTP or their works FFP.

10: Born in Austria, he collaborated with writers Charles Brackett and I.A.L. Diamond. He made his film debut in Germany writing Menschen am Sonntag (1929) and his American debut directing The Major and the Minor (1942).

5: He won Academy Awards for <u>The Lost Weekend</u>, <u>Sunset Boulevard</u>, and <u>The Apartment</u>.

Answer: Billy Wilder V

10: A staff writer for Look magazine, he made his directorial debut with the documentary Day of the Fight, moving 2. into features with Fear and Desire, and establishing his reputation with the thriller The Killing and the anti-war drama Paths of Glory.

5: Notable successes include Lolita, Dr. Strangelove, and A Clockwork Orange.

Answer: Stanley <u>Kubrick V V</u>
3. 10 pt: David Niven took the title of his autobiography <u>Bring on the Empty Horses</u> from a comment made by this director on the set of The Charge of the Light Brigade.

5 pt: He was a stable director at Warner Brothers, whose credits include Mildred Pierce, The Sea Hawk, and The Adventures of Robin Hood.

Answer: Michael Curtiz

- 20. Provide the first and last names of the Faulkner character from their relatives FFP each and a bonus five for all correct.
- 1. 5 pts: Her four sons by Anse are Cash, Darl, Jewel, and Vardaman.

Answer: Addie Bundren

10 pts: This lawyer solves mysteries in Knight's Gambit and also appears in Intruder in the Dust.

Answer: Gavin Stevens

3. 5 pts: He marries Ellen Coldfield and begets Henry and Judith. Charles Bon is his illegitimate son.

Answer: Thomas Sutpen

4. 10 pts: The main character in Sartoris, he is haunted by the death of his brother John. His grandfather who shares his name dies of a heart attack when he runs his car off the road.

Answer: Bayard Sartoris >