

**KICK: ASS**

Washington University in St. Louis – April 15, 2000

Packet by Roger Bhan

**Toss-Up Questions**

1. One of its namesake discoverers considered the total energy density, the total electromagnetic energy in a region divided by the volume of the region, which increased as the temperature increased. Its other namesake explained this law theoretically in terms of excitement, a measure of brightness of the emitted radiation from a region, and also developed the constant named after these two scientists. FTP, identify this physical law which states that the amount of energy emitted by a black body is proportional to the temperature of the body to the fourth power.

Answer: Stefan-Boltzmann law

2. They included the Impartial Administration of Justice Act, which removed British officials from the jurisdiction of Massachusetts courts; the Massachusetts Government Act, which revoked the colony's charter and forbade town meetings; the Quartering Act, which required the colonists to provide billets for British soldiers; and the Boston Port Act, which closed the port of Boston to trade. FTP, identify the collective name for these 1774 punitive measures taken against the Massachusetts colony by Parliament in response to the Boston Tea Party.

Answer: Intolerable or Coercive Acts

3. His initials are interwoven throughout the work in which he appears, particularly in the recurring phrases "Here Comes Everybody" and "Haveth Childer Everywhere." His sons Jerry and Kevin appear as an introvert and an extrovert, respectively. His daughter Isobel becomes the object of his lust, and he dreams of her as Iseult and himself as Tristram. He is plagued with guilt after accosting someone in Phoenix Park and continually dreams about the incident. FTP, identify this Protestant Irishman of Scandinavian descent, the main character of Joyce's *Finnegan's Wake*.

Answer: Humphrey Chimpden Earwicker

4. He was born in the Ust-Ordynski Collective near Lake Baikal with the name Piotr Nikolaevitch Rasputin. He recently fought with Pete Wisdom over his former love interest, Kitty Pryde, but has since accepted her new life and has even joined her new organization, Excalibur. His sister Illyana became the first tragic victim to die from the Legacy Virus brought to Earth by Apocalypse, which caused him to briefly join the Acolytes led by Magneto. FTP, identify this former member of the X-Men who can turn his flesh into an organic steel-like substance.

Answer: Colossus

5. This innovator in psychology was an instructor at the Institute for Psychoanalysis in Berlin before coming to the United States. This psychologist founded the American Institute for Psychoanalysis and became its dean in 1941. She espoused the belief that neuroses are the result of emotional conflicts arising from childhood experiences and later disturbances in interpersonal relationships. FTP, identify this author of *Neurosis and Human Growth* and *The Neurotic Personality of Our Time*, the founder of the neo-Freudian school of psychoanalysis.

Answer: Karen Horney

6. It is prepared as a by-product during the fractional distillation of crude benzene from coal tar. It undergoes condensation reactions with ketones to give highly colored compounds called fulvenes and readily undergoes polymerization at room temperature to give its dimer. The compound itself is not aromatic as it does not have enough pi electrons, but does become so after removal of one of its

hydrogen atoms. FTP, identify this cyclic alkene with formula  $C_5H_6$ , an instrumental agent in Diels-Alder reactions.

Answer: cyclopentadiene (accept  $C_5H_6$  on an early buzz)

7. He was instrumental in arranging the London conference of 1979 that led to black majority rule in Rhodesia. He was reelected to his sixth presidential term in 1988, but was defeated in 1991 in his country's first multiparty election in 19 years. In 1996, his country's legislature passed an amendment that prevented presidents from serving more than two terms, effectively disqualifying him from the election. He and his party, the United National Independence Party, therefore boycotted the elections. FTP, identify this African politician, the man who served as the first president of independent Zambia.

Answer: Kenneth Kaunda

8. It was adapted for stage in 1960; it was made into a film in 1950; and it won a Pulitzer Prize in 1947. The narrator is Jack Burden, a young intellectual who chronicles the story of a politician. Jack is forced to confront problems of good and evil in the main character's career, and is led to a new understanding after his downfall. The rise and fall of Willie Stark, a Southern demagogue, was obviously based on the life of Louisiana politician Huey Long. FTP, identify this Pulitzer-winning novel by Robert Penn Warren.

Answer: All the King's Men

9. A pile of fruit sits on the ground in the center, while the title group stands around it in various poses. The woman on the left faces towards the right, and leans against the multicolored wall in the background. The next two women face the viewer and stand with their arms behind their heads in sensual poses. Most noticeable is the woman who sits facing the background wall, but whose head has been turned 180-degrees and is in full view of the observer. FTP, identify this 1907 painting that depicts five women and named after a French city, created by Pablo Picasso.

Answer: Les Femmes d'Alger (O. J. R. Version O)

10. Its Intermezzo has been used in countless advertising campaigns and it is played every few years, invariably on a double bill with *I Pagliacci*. The entire plot takes place on Easter Sunday just to heighten the pathos. Set in Sicily, Lola, the former lover of the main character, is now married to Alfio, a jealous man. When Santuzza is seduced by Turridu and then rejected for Lola, she informs Alfio of the crime and he kills Turridu in a duel behind a church. FTP, identify this 19<sup>th</sup> century Italian opera composed by Pietro Mascagni.

Answer: Cavalleria rusticana or Rustic Chivalry

11. During contraction, the Z lines are drawn closer together and the I and H bands become narrower. Divided into various bands that reflect the arrangement of different filaments, it is bounded on two sides by the Z lines that serve as points of attachment of actin filaments. The M band serves as the point of attachment of the myosin filament. FTP, identify this functional unit that makes up the myofibrils of voluntary muscles.

Answer: sarcomere

12. Russia's title to Georgia was recognized, as were the autonomies of Serbia and the Romanian regions of Moldavia and Walachia, all under Russian protection. Russia was granted use of the Dardanelles, and was given the islands at the entrance of the Danube River. Most importantly, however, Greece was granted independence from the Ottoman Empire. FTP, identify this 1829 treaty that ended the Russo-Turkish Wars which shares its name with a famous 378 CE battle.

Answer: Treaty of Adrianople (accept Treaty of Edirne)

13. The Fascists arrested him as a spy when he went to cover the Spanish Civil War for a British newspaper. He wrote about a wide range of topics, including Zen Buddhism in *The Lotus and the Robot* and neurophysiology and molecular biology in *The Ghost in the Machine* and *The Case of the Midwife Toad*. However, he is best known for his anti-Communist leanings and his treatment of the conflict between morality and political expediency in *The Invisible Writing* and *The Yogi and the Commissar*. FTP, identify this Hungarian-born English author of the 1945 novel *Darkness at Noon*.

Answer: Arthur Koestler

14. Sometimes called the Sha-mo, it is bordered on the east by the Da Hinggan Ling, on the south by the Nan Shan mountains, on the west by the Tian Shan mountains, and on the north by the Hangayn Nuruu mountains. Consisting mainly of rolling gravel plains, only its southeastern portion is completely waterless. In the 1680s, the priest Jean François Gerbillon was the second European to cross it, but Marco Polo first crossed it in 1275 en route to visit the court of Kublai Khan. FTP, identify this Asian desert that lies principally in Mongolia.

Answer: Gobi desert

15. His story is told in Judges 11. His brothers and sisters cast him out of their father's household for his illegitimacy. Later, when the Ammonites threaten Israel, they ask him to be their captain and lead them to victory. Rashly, he promises to sacrifice the first member of his household to greet him if he is victorious. He succeeds in battle and is forced to sacrifice his daughter and only child. FTP, identify this judge of Israel, the son of a harlot and known as the "Gileadite."

Answer: Jephthah

16. Renegotiations led to its abrogation in 1934. It was passed as an amendment to the Army Appropriations Bill of 1901 and it allowed the interventions of 1906, 1912, 1917, and 1920, which the government of the nation in question denounced as undemocratic and imperialistic. It was included in that nation's constitution, adopted in 1901, and included in the treaty between the U.S. and said nation in 1903. FTP, identify this amendatory law of the early 20<sup>th</sup> century that allowed the United States to intervene in the internal affairs of Cuba.

Answer: Platt Amendment

17. He developed the theory of ring strain, which showed that the number of carbon atoms could explain why certain compounds are more stable. He worked for over 20 years trying to synthetically produce the dye indigo and finally elucidated its formula in 1883. However, he is perhaps best known for his first professional studies in which he combined uric acid with malonic acid to form barbituric acid, thereby deriving barbiturates. FTP, identify this German chemist who won the 1905 Nobel Prize in Chemistry, who also shares his name with a pain reliever.

Answer: Johann Friedrich Wilhelm Adolf von Baeyer

18. Chikamatsu Monzaemon, who was a master of kabuki and bunraku dramas; Matsuo Basho, the developer and master of haiku poetry; and especially Ihara Saikaku, a great revolutionary in fiction writing: all were members of this literary movement that occurred under the reign of the Higashiyama emperor from 1688-1703. FTP, identify this movement that saw the greatest flowering of Japanese literature and culture during the Tokugawa period.

Answer: Genroku (prompt on early buzz of Tokugawa)

19. Also known as Mardall, his more common name means "Earth Watcher," and he was born of nine giantesses, the waves of the sea. In some legends, he is said to be the father of mankind. He needs no sleep and can see in the darkest of nights. Eventually, he came to be associated with guardianship over

Yggdrasil, the world tree, but he is more commonly associated with guarding Bifrost, the rainbow bridge that leads into Asgard. FTP, identify this Norse god that will duel with Loki at Ragnarok after he sounds his Gjallarhorn to announce its coming.

Answer: Heimdall

20. They comprise the universe and behave independently of each other, nevertheless tied to each other through God's common reason. Every one expresses every other, as if it were a mirror of the universe, but none has a window through which it could receive or supply causal influences. The idea of these objects was meant to be a superior alternative to the idea of atoms that was becoming popular in the 17<sup>th</sup> and 18<sup>th</sup> centuries. FTP, identify these fundamental singularities that make up the universe, the main philosophy of Gottfried Wilhelm Leibniz.

Answer: monads

21. It was assigned the genus *Eoanthropus*, meaning "dawn man," and the species *dawsoni*, after its discoverer. Discovered by Charles Dawson in 1912, it was the subject of a great anthropological controversy until 1953, when scientific analysis proved it was a forgery. It included fragments of a modern human cranium and the jawbone of an ape. FTP, identify this apelike "fossil" thought to be the precursor to modern man, named after the British town near its supposed discovery.

Answer: Piltdown Man

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**Bonus Questions**

1. Identify these art terms FTSNOP.

- a) (10 points) This term comes from the Italian word for “smoke” and describes a method of fusing areas of color or tone to create a soft, hazy, atmospheric effect.

Answer: sfumato

- b) (15 points) Approximately meaning “under on up,” it describes the trick of painting figures in perspective on a ceiling so that they are extremely foreshortened, giving the impression, when viewed from directly underneath, that they are floating high overhead instead of lying flat in a picture plane.

Answer: sotto in su

- c) (5 points) In sculptures of the human form, this term refers to the pose in which the upper body faces in a slightly different direction from the lower, with the weight resting on one leg.

Answer: contrapposto

2. Given a description, identify the following economists who received the Nobel Prize FTPE.

- a) This recipient of the 1970 prize is famous for his 1948 textbook, *Economics: An Introductory Analysis*, in which he used mathematics to explain relationships among economic phenomena.

Answer: Paul Samuelson

- b) This Swede worked with his wife on Sweden’s declining birth rate, as well as the status of blacks in the U.S. His studies with the Carnegie Institute resulted in the work *An American Dilemma: The Negro Problem and American Democracy*. He shared the 1974 Nobel Prize.

Answer: Gunnar Myrdal

- c) He is considered a leading protagonist of the economic theory that free market forces, rather than increased government intervention, can most effectively produce a balanced and noninflationary rate of economic growth. His achievements in consumption analysis earned him the 1976 Nobel Prize.

Answer: Milton Friedman

3. Identify these plays of Plautus FTPE.

- a) The argument of this play is set up in acrostic verse, the first letter of each line spelling out the name of the play. Hegio buys two slaves to barter for the return of his son, a prisoner of war. Little does he realize, one of his two slaves is another son he’d lost years before.

Answer: Captivi or The Captives

- b) The end of this play is missing, but it is suspected that Lyconides wins the hand of Phaedria and her father, Euclio, rewards them with the treasure that forms the title of this play.

Answer: Aulularia or The Pot of Gold

- c) One of the sources for Shakespeare's *Comedy of Errors*, this play deals with a set of long-lost twins with the same name and the confusion that surrounds them before they meet.

Answer: The Twin Menaechni

4. Identify the following terms from evolution FTPE.

- a) This is the development of superficially similar structures in unrelated organisms, usually because the organisms live in the same kind of environment.

Answer: convergent evolution

- b) This type of evolution goes from one species of animal or plant to a number of different forms. Large populations seek new habitats and evolve into different species based on their surroundings.

Answer: divergent evolution or adaptive radiation

- c) Proposed by Stephen Jay Gould, this theory states that plant and animal species usually arise very quickly in terms of geological time (in less than 100,000 years) and seldom through a process of gradual change.

Answer: punctuated equilibrium

5. Identify these Supreme Court decisions given a description FTPE.

- a) This 1908 case dealt with the right of the federal government to prohibit certain labor union activities. The court ruled unanimously that a secondary boycott was a conspiracy for the restraint of trade, a violation of the Sherman Antitrust Act.

Answer: Danbury Hatters Case or Loewe v. Lawler

- b) This 1919 case first determined the meaning of the freedom of speech protection of the First Amendment. The Supreme Court ruled unanimously that there are certain limits to the First Amendment's guarantees of freedom and Chief Justice Holmes outlined his "clear and present danger" argument.

Answer: Schenck v. United States

- c) This 1866 decision saw the Supreme Court refuse to permit military trials of civilians as long as the civil courts were open.

Answer: Ex parte Milligan

6. Identify the following concerning a big, one-eyed lug FTSNOP.

- a) (5 points) First, who is this son of Poseidon and leader of the Cyclopes who trapped Odysseus and his men in a cave?

Answer: Polyphemus

- b) (10 points) Next, identify the nymph that Polyphemus loved, though she never returned his affection. She shares her name with a statue that came to life in another myth.

Answer: Galatea

- b) *'Tis Pity She 's a Whore*

Answer: John Ford

- c) *The Honest Whore*

Answer: Thomas Dekker

14. Identify these recipients of the Nobel Prize in Chemistry given a description FTPE.

- a) She received the 1964 award for determining the structure of biochemical compounds essential in combating pernicious anemia. She is best known for her use of x-ray diffraction to study the structure of macromolecules.

Answer: Dorothy Hodgkin

- b) This chemist received the 1999 prize for his work in developing the field of femtosecond spectroscopy.

Answer: Ahmed Zewail

- c) This two-time winner of the prize elucidated the structure of proteins, which won him the 1958 award, and determined the base sequences in nucleic acids to receive the 1980 prize.

Answer: Frederick Sanger

15. Identify the following about the Palatine-Bohemian phase of the Thirty Years' War FTPE.

- a) The Thirty Years' War began when this king of Bohemia refused to aid the Protestant Evangelical Union against the Catholic League, leading to the Defenestration of Prague.

Answer: Ferdinand II

- b) On November 8, 1620, the Catholic League army under Johann Tserclaes, graf von Tilly routed the Evangelical Union army at this battle that took place near Prague. It effectively ended the Protestant uprising.

Answer: Battle of White Mountain or Weisserberg

- c) In 1619, the Bohemians deposed Ferdinand II and installed this Calvinist ruler, elector of the Palatinate, as king. Many Lutherans abandoned the Evangelical Union after this man was made king of Bohemia.

Answer: Frederick V

16. Identify the following concerning the World Trade Organization FTPE.

- a) The WTO was first introduced in 1994 to replace this former international trade organization and treaty.

Answer: GATT or General Agreement on Tariffs and Trade

- b) The WTO headquarters are located in this European city.

Answer: Geneva, Switzerland



Answer: L-distribution

10. Identify these 20<sup>th</sup> century Vietnamese statesmen FTPE.

- a) He was the last emperor of the Nguyen dynasty. After the 1954 partition, he remained the head of state in South Vietnam until he was deposed the following year.

Answer: Bao Dai

- b) This was the man who ousted Bao Dai in 1955. He became the first president of South Vietnam.

Answer: Ngo Dinh Diem

- c) This leader of the Viet Minh seized power in Vietnam after the surrender of Japan after World War II. He proclaimed the independent Democratic Republic of Vietnam, with himself as president. His name means "he who enlightens."

Answer: Ho Chi Minh

11. Here's a bonus about "three" works of music. Identify the following FTSNOP.

- a) (5 points) This opera by Prokofiev is based on a story by Gozzi and calls for a cast of ten "ridiculous people," a "Gigantic Cook," and a smattering of princesses.

Answer: The Love for Three Oranges

- b) (10 points) This ballet score by Manuel de Falla derives its character from the cante jondo, a highly evocative song style of Andalusia, of which Falla made a thorough study.

Answer: El sombrero de tres picos or The Three-Cornered Hat

- c) (15 points) This orchestral work by Charles Ives includes the parts *Col. Shaw and his Colored Regiment*, *Putnam's Camp*, and *The Housatonic at Stockbridge*. These describe the number of places in the title location.

Answer: Three Places in New England

12. Identify the following concerning the philosopher Plotinus FTPE.

- a) Plotinus is considered an exponent of this school of philosophy.

Answer: Neo-Platonism

- b) The fifty-four treatises of Plotinus were compiled into six books and were given this title.

Answer: Enneads

- c) This pupil of Plotinus compiled his writings into the *Enneads* after he died.

Answer: Porphyrus

13. Given a play, identify the 17<sup>th</sup> century English playwright who created it FTPE.

- a) *A New Way to Pay Old Debts*

Answer: Philip Massinger



- c) (15 points) This was the youth that Galatea loved instead of Polyphemus. In a jealous rage, the one-eyed lug slew this poor young man, who later became a river god.

Answer: Acis

7. FTSNOP, identify the following characters from the 1980s cartoon that's more than meets the eye.

- a) (5 points) He was the leader of the Autobots that could transform into a frickin' huge 18-wheeler.

Answer: Optimus Prime

- b) (10 points) This guy could transform into a tyrannosaurus rex. He didn't have much going on upstairs, but he was strong as hell. He was the leader of the Dinobots.

Answer: Grimlock

- c) (15 points) In the Transformers movie, he was the main villain and caused the Autobots and Decepticons to work together to defeat him. He could transform into a planet that ate other planets. It was pretty scary.

Answer: Unicron

8. Given the first line of a poem from American literature, identify the title of the poem FT5PE, or FTPE if you need the poet.

- a) (15 points) "Just as my fingers on these keys / Make music, so the selfsame sounds / On my spirit make a music, too.

(10 points) Wallace Stevens

Answer: Peter Quince at the Clavier

- b) (15 points) "Paint me a cavernous waste shore / Cast in the unstilled Cyclades, / Paint me the bold anfractuous rocks / Faced by the snarled and yelping seas."

(10 points) T. S. Eliot

Answer: Sweeney Erect

9. Identify these statistical distributions given a description FTPE.

- a) This probability distribution has a symmetrical bell shape when plotted as a graph. The distribution is continuous, with the mean, median, and mode coinciding.

Answer: normal or Gaussian distribution

- b) This probability distribution represents the number of events that occur randomly in a given time at an average rate denoted by the Greek letter lambda. This distribution can be used in analyzing radioactive decay and traffic flow.

Answer: Poisson distribution

- c) This probability distribution is made up of the means of random samples from a collection of samples that have a normal distribution of unknown variance.

- c) This former Italian trade minister became the first full-time director-general of the WTO in May 1995.

Answer: Renato Ruggiero

17. Wuz up, G-Money? Identify these important places mentioned in the Bible FTPE.

- a) This is the valley outside of Jerusalem where, during various periods, the Jews slipped into the pagan rite of sacrificing children to Moloch.

Answer: Gehenna

- b) The same as Calvary, it is the place where Jesus was crucified. Its name is Latin for "skull."

Answer: Golgotha

- c) This is the olive grove, or garden on the western slope of the Mount of Olives where Jesus underwent his "agony," where he was visited by an angel, and where Judas betrayed him.

Answer: Gethsemane

18. Identify these works of Russian literature from descriptions FTPE.

- a) This short novel by Gogol depicts the war between the Poles and the Cossacks during the 17<sup>th</sup> century. The title character kills his son after he falls in love with a Polish woman, and dies after being tortured by Polish soldiers.

Answer: Taras Bulba

- b) This Dostoyevsky novel has two plot lines. One traces the strange career of nihilist Nikolay Stavrogin and his criminal behavior. The other follows the revolutionary movement in Russia. It is sometimes translated as *The Devils* or *The Demons*.

Answer: The Possessed

- c) The hero of this four-volume work by Sholokhov, Gregor Melekhov, must decide whether to side with the Bolsheviks or the Cossacks during the revolution in the Don Cossack region of Russia.

Answer: And Quiet Flows the Don or The Quiet Don

19. Identify these special nucleotide sequences F15PE.

- a) This consensus sequence of nucleotides – TATAAT – occurs in the promoter region of prokaryote genes about 10 nucleotides before the start of transcription. It signals the beginning of transcription by RNA polymerase.

Answer: Pribnow box

- b) This sequence serves as the main recognition site for the attachment of RNA polymerase in the promoter region of eukaryotic genes. Located at round 25 nucleotides before the start of transcription, it consists of the seven-base consensus sequence TATAAAA.

Answer: TATA or Hogness box

20. Identify the following concerning an incident in U.S. history FTSNOP.

## Round Two

- a) (5 points) This resolution was passed on August 7, 1964. It gave President Lyndon Johnson the power to initiate an air war against North Vietnam and subsequently to send ground forces to South Vietnam.

Answer: Gulf of Tonkin Resolution

- b) (10 points) FFPE, identify the two ships Johnson claimed had been attacked by the North Vietnamese after they had crossed into declared coastal waters.

Answer: USS Maddox and USS Turner Joy

- c) (15 points) Identify either of the only two U.S. Senators to vote against the Tonkin Gulf Resolution, one a Democrat from Alaska, the other a Democrat from Oregon.

Answer: Wayne Morse or Ernest Gruening

21. Given a list of islands, identify the island group to which they belong FTPE.

- a) Fuertaventura; Lanzarote; Tenerife

Answer: Canary Islands

- b) Bougainville; Buka

Answer: Solomon Islands

- c) Chichi; Haha; Ototo; Mukai; Yome

Answer: Bonin Islands