

KICK: ASS

Washington University in St. Louis – April 15, 2000

Packet by Roger Bhan

Toss-Up Questions

1. One of the authors associated with the literary movement known as El Boom, he gained fame for his emphasis on the parodic use of popular genres, coupled with an ironic treatment of narration. A personal history of his includes *The Boom in Spanish-American Literature*, and he also wrote such short fiction works as *Cuentos* and *A House in the Country*. However, he is best known for his novels that mark him as one of the 20th century's greatest Latin American authors. FTP, identify this Peruvian novelist, the creator of such works as *The Obscene Bird of Night* and *Coronación*.

Answer: José Donoso

2. In the ammonia gas type, a molecular beam of ammonia passes through a small orifice into a vacuum chamber, where it is subjected to a nonuniform electric field that deflects the ammonia molecules. In the solid-state variety, a magnetic field is applied to the electrons of paramagnetic atoms or molecules. An electro-spin resonance is created that allows amplification over broader bandwidths than the gas varieties. It is used in atomic clocks and as amplifiers in radio astronomy. FTP, identify this device for generating microwaves by means of stimulated emission of radiation.

Answer: maser

3. He assisted Adelaide, the widowed queen of Lombardy, against Berengar II, who had usurped the kingdom. He later married her, thereby becoming ruler of northern Italy, in addition to all of Germany. He returned to Germany and defeated a rebellion by his son Liudolf and halted a Magyar invasion in 955 CE. In 962 he was made Holy Roman Emperor and in 963 he deposed Pope John XII and elected Leo VIII instead, seeking to make the church subordinate to the authority of the Empire. FTP, identify this powerful Holy Roman Emperor that allied his kingdom with the Byzantines in the 10th century.

Answer: Otto I or Otto the Great

4. It was founded as a trading depot in 1881 by Sir Henry Stanley, and was originally named after the king of Belgium at the time. The city grew rapidly after the 1898 completion of a railroad to Matadi. Home to Ndjili International Airport, Congo River traffic terminates here due to the rapids after this city. It replaced Boma as the capital of the Belgian Congo in the late 1920s. FTP, identify this African capital, formerly known as Léopoldville, currently the capital of the Democratic Republic of the Congo.

Answer: Kinshasa (accept Léopoldville before "originally")

5. It underwent revitalization in the 1980s through the writings of philosopher Richard Rorty. It sought a middle ground between the traditional ideas about the nature of reality and the radical nihilism popular in the 19th century. Often considered an elitist school of philosophy, it called for theories to be tested in practice by assessing whether acting upon the theory produces desirable results or not. FTP, identify this American school of philosophy most often associated with John Dewey, Charles Sanders Peirce, and William James.

Answer: pragmatism

6. It originated in a letter to American painter Benjamin West, expressing dissatisfaction with the paintings viewed at his 1817 exhibition. This phrase signifies what the author of the letter saw as an essential quality of the artist: an ability to tolerate the "uncertainties," "doubts," and "mysteries" of

reality, as a prerequisite to embodying them in art. FTP, identify this two-word phrase used to describe a state of imaginative openness, coined in the 19th century by John Keats.

Answer: negative capability

7. Deviations in this law cause the formation of azeotropes. A solution that obeys this law is termed an ideal solution. In general, it only holds true for dilute solutions, and those that are non-dilute and follow this law are termed perfect solutions, and occur when the intermolecular forces between molecules of the pure substances are similar to the forces between molecules of one and molecules of the other. FTP, identify this law of chemistry that states that the partial vapor pressure of a solvent is proportional to its mole fraction.

Answer: Raoult's law

8. His most important job ran in the family, as his grandfather was secretary of state under Benjamin Harrison, and his uncle was secretary of state under Woodrow Wilson. A staunch anti-Communist, his philosophy came to be known as "brinkmanship," the idea that the U.S. must be prepared for nuclear war with Communist nations. He established SEATO and the Baghdad Pact while serving as Eisenhower's secretary of state. FTP, identify this U.S. statesman whose brother served concurrently as the director of the CIA.

Answer: John Foster Dulles (prompt on Dulles)

9. Some of his works include *The Uses of Enchantment*, a work on the importance and meaning of fairy tales, and *Freud's Vienna*, his last published work before his sudden death in 1990. His 1943 article "Individual and Mass Behavior in Extreme Situations" was a study on the effects of inordinate stress on personality and drew from his experiences as a prisoner at Dachau and Buchenwald. However, his best known works reflect his interest in autistic children, such as *Love is Not Enough* and *Truants from Life*. FTP, identify this Austrian-born psychoanalyst who committed suicide in 1990.

Answer: Bruno Bettelheim

10. They believe in the transmigration of souls and their prayers are held in inconspicuous buildings outside their villages. In order to protect their secret teachings, they worship as Muslims when among Muslims and as Christians when among Christians. The basis of their belief is that at various times God has been divinely incarnated in a living person and the last such incarnation was al-Hakim, the sixth Fatimid caliph. Living mainly Lebanon and Syria, FTP, identify this offshoot of Islam that cultivates terraced mountainsides in the Middle East.

Answer: Druze or Druse

11. Based on the Senecan model, Chiron and Demetrius rape the title character's daughter and cut off her hands and tongue. The trouble begins when Bassanius runs off with Lavinia and Saturninus marries Tamora, the queen of the Goths. Tamora still hunts for revenge after the title character kills her eldest son and plots with her Moorish lover Aaron to have two of his sons killed and one exiled. In retaliation, the title character cooks up her own sons and serves them to her at dinner. FTP, identify this awful play by Shakespeare recently made into a motion picture starring Anthony Hopkins.

Answer: Titus Andronicus

12. It is less commonly known as 5-hydroxytryptamine and is a compound derived from the amino acid tryptophan. It is released by mast cells, basophils, and platelets and acts as a mediator of inflammation and allergic reactions. It also plays a role in affecting the diameter of blood vessels and it functions as a neurotransmitter. However, it is probably best known as the target of selective reuptake inhibitors, a class of drugs known as SSRIs. FTP, identify this neurological compound, a lack of which is thought to cause depression.

Answer: serotonin

13. Its predecessor was the self-governing Watauga Association, a land cession made by North Carolina, which gave rise to this independent state. Governed by John Sevier, it clashed with North Carolina as they both attempted to govern the same region and people. Sevier was eventually arrested and charged with high treason, but was acquitted. This briefly independent state, known then as the Southwest Territory, was then given to Tennessee in a 1790 treaty. FTP, identify this short-lived republic in present-day Tennessee that took its name from a distinguished American diplomat.

Answer: State of Franklin

14. The shadows, the color of the walls, and the clothes of the eight men all add to the dominance of black in this painting. Three of the observers are hunched over and peer intently at the subject, while another bending over a scroll stares out of the canvas and at the viewer. The title character uses forceps to indicate a muscle in the forearm of the cadaver lying on the table in the center of the painting, whose entire arm has been dissected, revealing bones and all. FTP, identify this 1632 painting by Rembrandt that might have depicted a course at medical school.

Answer: *The Anatomy Lesson of Dr. Tulp*

15. With the model designation T-65, it is 12.5 meters from nose to engine block and was first manufactured by the Incom Corporation before the company was nationalized by the Empire. A unique combination of firepower and speed, it boasts four sub-light engines as well as a hyperdrive, and four blaster cannons along with two proton torpedo launchers. It takes its name from the pair of double-layered wings that are deployed into its namesake formation during combat. FTP, identify this mainstay starfighter of the Rebel Alliance that Luke Skywalker piloted in the movie *Star Wars*.

Answer: X-Wing

16. Ellie May has a harelip. Pearl married Lov Bensey at the age of twelve and ends up running away from him, leaving Ellie May to live with him happily. Bessie Rice buys a car for sixteen-year-old Dude, who marries her and ends up smashing the car and killing his grandmother. Ada, the sickly wife, and Jeeter, the husband and Georgia sharecropper, both die tragically one night when their shack burns down. FTP, identify this novel that chronicles the Lester family and takes place on the title street, written by Erskine Caldwell.

Answer: *Tobacco Road*

17. They account for the sizable proportion of the repetitive DNA in eukaryotes, and they can disrupt gene expression or cause deletions and inversions. Composite types, large and complex, consist of a central portion, possibly containing functional genes, flanked by insertion sequences at either end. The simplest types, known as insertion sequences, typically consist of 700-1500 base pairs and have numerous short repeated nucleotide sequences at either end. FTP, identify these mobile genetic elements first discovered in maize in the 1940s by Barbara McClintock.

Answer: transposons (prompt on jumping genes)

18. The Geneva Accords of 1954 recognized it as a legitimate political entity. Formed under the leadership of Prince Souvanna Phouma and his half-brother Prince Souphanouvong, it established a political party called the Neo Lao Hak Xat after its country gained independence in 1953. Many of its leaders now rule the country under the RLG party, or Royal Lao Government, which was supported by the U.S. as anti-Communist. FTP, identify this group that signed a pact with the Viet Minh and the Khmer Rouge to oust France from southeast Asia, particularly Laos.

Answer: Pathet Lao

19. It owes much to Stravinsky's *Les Noces* and *Oedipus Rex*, though it makes little use of the extended melodic writing, thematic development or polyphony of those pieces. It was conceived by its composer as a "scenic cantata" for the stage, and the libretto was from a sequence of medieval Latin lyrics that mix Christian piety with a celebration of the world's delights, as evidenced by the work's three parts: *Spring*, *In the Tavern*, and *Love*. FTP, identify this 1937 orchestral work composed by Carl Orff.

Answer: Carmina Burana

20. His father was a justice on the Supreme Court of Michigan and was the first chairman of the Interstate Commerce Commission. Known as the Sage of Ann Arbor, this sociologist opposed the tradition that posited a distinction between the thinking subject and the external world and argued that a person's self grows out of a person's commerce with others in an organic view of society. He also analyzed the human groupings that he conceived to be essential in linking man with his society. FTP, identify this pioneer in sociology, the author of such works as *The Looking-Glass Self* and *Primary Groups*.

Answer: Charles Horton Cooley

21. She was the only nymph that did not love the wild woodland. Instead, she cared for fruits and orchards. Her delight was in pruning, grafting, and everything that belonged to the gardener's art. And that was all she delighted in, as she shunned all men and love until her future lover came to her dressed as an old woman and convinced her to love him. He then revealed himself and this nymph fell in love with him right away. FTP, identify this nymph from Roman mythology that fell in love with Vertumnus.

Answer: Pomona

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Bonus Questions

1. Identify the following straits given a description FTPE.

- a) This channel, named for a Spanish navigator who explored it in 1606, lies between northern Australia and southern New Guinea.

Answer: Torres Strait

- b) Connecting the Andaman Sea with the South China Sea, this strait separates the Malay Peninsula and Sumatra. The largest port on this strait is Singapore.

Answer: Strait of Malacca

- c) Along with the Kattegat and the Øresund straits, it connects the North Sea with the Baltic Sea and lies between the southern coast of Norway and the southern coast of Sweden.

Answer: Skagerrak strait

2. Identify the following concerning a certain school of psychology FTSNOP.

- a) (5 points) Identify the school of psychology that deals with the process of perception. Images are perceived as a pattern or a whole rather than the sum of their distinct parts, according to this school.

Answer: Gestalt psychology

- b) (5 points each) Identify the three men considered to be the founders of Gestalt, all German psychologists.

Answer: Kurt Koffka, Max Wertheimer, Wolfgang Köhler

- c) (10 points) Identify the school of psychology out of which Gestalt was formed. This school posited that stimuli are perceived as parts and then built into images as a whole.

Answer: associationism

3. Identify the following novels by Sinclair Lewis FTPE.

- a) This novel is about a dictatorship set up in the U.S. by Berzelius Windrip, a New England demagogue elected to the presidency. Doremus Jessup, a Vermont editor, and Walt Trowbridge, his rival in the election, oppose him.

Answer: *It Can't Happen Here*

- b) This novel traces the life of the title character and his quest for pure science as a doctor. He grows up in small town America and eventually ends up on an isolated Vermont farm.

Answer: *Arrowsmith*

- c) The title character of this novel is an ex-college football player who enters the ministry and becomes a successful evangelist.

Answer: Elmer Gantry

4. Identify the following radiochemistry dating techniques given a description FTPE.

- a) This dating technique depends on the decay of a certain element's isotope 40 into another element's isotope 40. The half-life of the decay is approximately 1.27×10^{10} years. The time is measured from when the first element becomes trapped in a crystal lattice of mica, feldspar, and similar minerals.

Answer: potassium-argon dating

- b) This method gives dates of several billion years and involves one element's isotope 87 into another of similar isotope number. The half-life of the decay is 4.7×10^{10} years. The ratio of the radioisotope to the stable element is used to determine the age of the specimen.

Answer: rubidium-strontium dating

- c) This method gives reliable results for ages of the order 10^7 - 10^9 years. The 238 radioisotope decays into the stable 206 isotope of a different element. Typically, the amount of helium trapped in the rock is measured and compared to the radioisotope.

Answer: uranium-lead dating

5. Identify the following concerning the Chaco War FTSNOP.

- a) (5 points each) Identify the two nations that fought in the Chaco War.

Answer: Bolivia and Paraguay

- b) (15 points) This Argentine statesman, a recipient of the Nobel Peace Prize in 1936, played a key role in ending the Chaco War by establishing a mediation panel that led to a truce between Bolivia and Paraguay.

Answer: Carlos Saavedra Lamas

- c) (5 points) Name any year in which the Chaco War took place.

Answer: 1932-1935

6. Identify these works of John Maynard Keynes from descriptions FTPE.

- a) Keynes wrote this work in opposition to the economic terms of the Treaty of Versailles in 1919. This work correctly predicted that the staggering reparations levied against Germany would goad the country into economic nationalism and a resurgence of militarism.

Answer: *The Economic Consequences of the Peace*

- b) Perhaps Keynes' most famous work, it proposed that no self-correcting mechanism to lift an economy out of a depression existed and that government spending must compensate for insufficient business investment in times of recession.

Answer: *The General Theory of Employment, Interest, and Money*

- c) This work failed to explain the problem of prolonged depression, but did elucidate why economies operate so unevenly, with frequent cycles of booms and depressions.

Answer: A Treatise on Money

7. Identify these random things from philosophy FTSNOP.

- a) (5 points) This philosopher wrote such works as *Vindication of the Doctrine of the Trinity* and *The Reasonableness of Christianity*, but is much better known for *Two Treatises of Government* and *Essay Concerning Human Understanding*.

Answer: John Locke

- b) (10 points) This French philosopher was one of the Encyclopedists and held the same skeptical views common to that school of philosophy. He is most famous for his works *De l'Esprit* and *A Treatise on Man; his Intellectual Faculties and his Education*.

Answer: Claude Adrien Helvetius

- c) (15 points) This school of philosophy was an important impetus to pragmatism in 19th century U.S. Founded by William Torrey Harris and Henry Conrad Brokmeyer, it espoused the idealism of a famous German philosopher and was centered in a large midwestern city, from which it took its name.

Answer: St. Louis Hegelians

8. Given a description, identify the short story from James Joyce's *Dubliners* FTPE.

- a) This story concerns an ordinary spinster, Maria, who attends the party of a man to who she once nursed as a child. During a blindfold game, the children get her to stick her fingers in a dish of the title object.

Answer: Clay

- b) After a boring evening at his aunts' party, Gabriel Conroy takes his wife Greta home after she was reminded of her old lover Michael Furey. The story ends with Gabriel looking out at the snow and contemplating life and death.

Answer: The Dead

- c) This story in *Dubliners* concerns a boy's first experience with death. By overhearing a conversation, he learns that his dead mentor was insane.

Answer: The Sisters

9. Identify the following concerning joints FTPE. No, not *that* kind of joint.

- a) This is the membrane that lines the ligament surrounding a freely movable joint. It secretes a namesake fluid that lubricates the layers of cartilage forming the articulating surfaces of the joint.

Answer: synovial membrane or synovium

- b) This is the general term given to a smooth round knob of bone that fits into a socket on an adjoining bone, forming a joint.

Answer: condyle

- c) This is the term given to an immovable joint. Examples include the joints between the bones of the skull.

Answer: suture

10. Identify the following concerning the election of 1936 FTSNOP.

- a) (5 points) He was the Republican Party candidate for the presidency who was defeated by Franklin Roosevelt.

Answer: Alfred Landon

- b) (10 points) Despite the fact that he was predicted to win the 1936 presidency, Alf Landon carried only two states. Name either FTP.

Answer: Maine or Vermont

- c) (15 points) He was Landon's running mate during the election, a publishing magnate.

Answer: Frank Knox

11. Identify these organizations or movements in Christianity FTPE. Hint: they all start with the same letter.

- a) Founded in Spain, this is an international Roman Catholic organization dedicated to applying principles of Christianity to secular life and work. This lay organization is divided into two sections, one for men and one for women.

Answer: Opus Dei

- b) Also known as Tractarianism, this was a religious revival emphasizing the catholic or apostolic origins of the Church of England. It was centered at the British university from which it took its name, and included such figures as John Keble and Cardinal Newman.

Answer: Oxford Movement

- c) From the Greek for "serpent," this was a group of Gnostic sects that flourished in the Roman Empire during the 2nd century CE. They believed that the human soul is imprisoned in the body and the material universe can be saved through the revealed knowledge of a soul's transcendent origin.

Answer: Ophites

12. Identify these composers from works FTPE, or FFPE if you need more recognizable works.

- a) (10 points) *Simon Boccanegra*; *Un Ballo in Maschera*

(5 points) *Rigoletto*; *Il Trovatore*

Answer: Giuseppe Verdi

- b) (10 points) *Dream of Gerontius*; *The Apostles*

(5 points) *Enigma Variations*

Answer: Edward Elgar

- c) (10 points) *Seven Last Words; Il Mondo della Luna*

(5 points) *London Symphonies; Surprise Symphony; Farewell Symphony*

Answer: Joseph Haydn

13. Identify these Nigerian literary figures from descriptions FTPE.

- a) Some of her novels include *In the Ditch*, *The Moonlight Bride*, and *The Bride Price*. However, this novelist, playwright and publisher is best known for her 1979 novel *The Joys of Motherhood* and 1994's *Kehinde*.

Answer: Buchi Emecheta

- b) This playwright founded two Nigerian theater companies. His works are preoccupied with themes of sacrifice and Nigerian folk beliefs, such as *The Lion and the Jewel* and *A Dance of the Forests*.

Answer: Wole Soyinka

- c) His novel *Anthills of the Savannah* was a finalist for the 1987 Booker Prize. His best known work is a portrayal of the breakdown of traditional Nigerian society in the face of European colonization.

Answer: Chinua Achebe

14. Identify the following concerning fluid dynamics FTPE.

- a) This law states that in a confined fluid, externally applied pressure is transmitted uniformly in all directions. In a static fluid, force is transmitted at the speed of sound throughout the fluid and acts at right angles to any surface bounding the fluid.

Answer: Pascal's law

- b) This theorem states that at any point in a pipe through which a fluid is flowing the sum of the pressure energy, the kinetic energy, and the potential energy of a given mass of the fluid is constant.

Answer: Bernoulli theorem

- c) This is a dimensionless number used in fluid dynamics to determine the type of flow of a fluid through a pipe. If it is less than 2000, laminar flow occurs. If it is greater than 3000, turbulent flow occurs.

Answer: Reynolds number

15. Identify the following concerning Hitler's Gestapo FTPE.

- a) This lieutenant of Hitler founded the Gestapo in April 1933. Its purpose was to persecute all political opponents of the Nazi regime.

Answer: Hermann Göring

- b) This rival of Göring's won control of the Gestapo in April 1934. He was eventually made commander of all German police forces.

Answer: Heinrich Himmler

- c) The Gestapo usually worked in conjunction with this security service of the Nazi Party, which performed the intelligence work that formed the basis of Gestapo operations.

Answer: SD or Sicherheitsdienst

16. Identify these 20th century artists from works FTPE.

- a) *New York Movie; Sunlight in a Cafeteria; Hotel Room*

Answer: Edward Hopper

- b) *Black Iris; Cow Skull with Calico Roses; The Radiator Building at Night*

Answer: Georgia O'Keeffe

- c) *Joy of Life; Harmony in Red; Dance (II)*

Answer: Henri Matisse

17. Given a feat, identify the baseball player that holds the all-time record FTSNOP.

- a) (5 points) Home Runs

Answer: Hank Aaron

- b) (10 points) Stolen Bases

Answer: Rickey Henderson

- c) (15 points) Triples

Answer: Sam Crawford

18. Given a few lines, identify the 17th century English poem FTPE.

- a) "... And therefore never send to know for whom the bell tolls; It tolls for thee."

Answer: Devotions upon Emergent Occasions

- b) "Stone walls do not a prison make, / Nor iron bars a cage."

Answer: To Althea from Prison

- c) "But at my back I always hear / Time's winged chariot hurrying near; / And yonder all before us lie / Deserts of vast eternity."

Answer: To His Coy Mistress

19. Identify these different types of engines given a description FTPE.

- a) This ideal engine predicts a maximum thermal efficiency. It consists of two isothermal expansions and two adiabatic expansions.

Answer: Carnot cycle