

**KICK: ASS**

**Washington University in St. Louis – April 15, 2000**

**Packet by Roger Bhan**

**Toss-Up Questions**

1. It ended when the mayor of the palace, who became the famous founder of the next dynasty, deposed Childeric III. Its last strong ruler was Dagobert I, who ruled for ten years. The kingdom was reunited under his father, Clotaire II, after it had been divided into four regions after the death of this dynasty's founder. Its founder, who took the dynasty's name from his grandfather, became king of the Salian and Ripuarian Franks and united most of present-day France in 481 CE. FTP, identify this French dynasty that was founded by Clovis I and named after Merovech.

Answer: Merovingian

2. Potassium permanganate, Gabriele D'Annunzio, Mickey Rooney, lemmings, Jorge Luis Borges, and the Poisson distribution are all topics discussed in depth in this novel. This work takes place in a nightmarish post-WWII society dominated by a sinister international power group that controls the world through missile technology. Featuring such characters as Sammy Hilbert-Spaess, Horst Achtfaden, and Greta Erdmann, the story centers on the mysterious Rocket 00000 and its seeker, Lt. Tyrone Slothrop. FTP, identify this 1973 complicated work of Thomas Pynchon.

Answer: Gravity's Rainbow

3. They are effective in treating glaucoma and in preventing migraine headaches. They reduce the release of renin from the kidneys, leading to an overall fall in arterial blood pressure. Examples include propranolol, oxprenolol, and atenolol, and they are used most commonly to treat disorders of the cardiovascular system like angina pectoris and arrhythmias. They are defined as any of a group of drugs that bind preferentially to beta adrenergic receptors and block their stimulation. FTP, identify this class of drugs whose best-known use is to combat the symptoms of Marfan's syndrome.

Answer: beta blockers or beta-adrenoceptor antagonists

4. His name means "Creator," and he is usually depicted as a mummified man with only his hands free to grasp a scepter composed of the symbols of life, power, and stability. He is also depicted wearing a skullcap and standing on the hieroglyph symbol for Ma'at, the goddess of truth. His wife is usually Sakhmet and his children are Nefertem, Maahes, and Imhotep, the deified architect of the Old Kingdom. Apis, the bull of Memphis, was associated with him, as well. FTP, identify this god of Egyptian mythology whose worship was centered at Memphis, also deemed the patron of craftsmen.

Answer: Ptah

5. After her retirement, she was offered to play the role of author George Sand, but she rejected it and the part went to Merle Oberon who starred in *A Song to Remember*. Known for her expressive eyes, she got her start in European films before coming to the U.S. and becoming rivals with Joan Crawford. Famous for her roles in *Anna Karenina* and *Camille*, this actress starred in her first comedy in 1939's *Ninotchka*. FTP, identify this Swedish-born actress who starred in such films as *Mata Hari* and *Grand Hotel*.

Answer: Greta Garbo

6. In 1972, the Soviet Union agreed to pay \$722 million in installments through 2001 to the U.S. to settle its indebtedness due to this program. The office that administered this act was incorporated in to the Foreign Economic Agency in 1941 and transferred to the State Department two years later. Thirty-five governments were the beneficiaries of this program originated by FDR to combat Nazi expansionism,

and \$1 billion were originally appropriated for military relief, though the total turned out to be \$11 billion. FTP, identify this 1941 program of U.S. military aid that aided the Allies.

Answer: Lend-Lease program

7. It is often compared with *Candide*, as the two works were published only a few weeks apart and both attack the optimism of the 18<sup>th</sup> century. It concerns the title character, his sister Nekayah, and his mentor Imlac. The three leave the Happy Valley longing for the novelty of the outside world. They are warned by many examples of the dangers of romantic reverie and flights of imagination as they experience the realities of the city of Cairo. FTP, identify this 1759 philosophical romance, a drama by Samuel Johnson.

Answer: *History of Rasselas, Prince of Abyssinia*

8. To account for deviances at extremely low temperatures, Einstein assumed that each atom oscillated about its equilibrium position with a single frequency and then invoked Planck's hypothesis to assert that the energy is confined to discrete values. The law is easy to justify in terms of classical physics, however, and the two namesake scientists of this law obtained the value of  $3R$ , or  $25 \text{ J K}^{-1} \text{ mol}^{-1}$ . FTP, identify this law of physical chemistry that states the product of the relative atomic mass and the specific heat capacity of monatomic solids is constant.

Answer: law of Dulong and Petit

9. It is bordered on the east and south by Haryana state, on the south and southwest by Rajasthan state, and on the north by Himachal Pradesh and Kashmir. Its population consists mainly of its namesake ethnic group, as well as Jats and Rajputs. Small minorities of Muslims, Buddhists and Jains can be found, but the largest minority is Hindu, while the majority of the population practices Sikhism. With its capital at Chandigarh, this is, FTP, what state of India that is home to Guru Nanak Dev University in the city of Amritsar?

Answer: Punjab

10. Thought to have been written just prior to the destruction of Jerusalem in 70 CE, it is built around five narrative discourses concerning Jesus Christ, preceded by an introductory narrative, and followed by two culminating narratives. Unique in this book is the superior position of Saint Peter, which no other Gospel contains. The two penultimate discourses discuss the author's passion and Jesus' resurrection, while the first section traces Jesus' genealogy from Abraham. FTP, identify this synoptic Gospel, the first book of the New Testament.

Answer: *Gospel According to Matthew*

11. He fought to keep the U.S. Army from opening the Bozeman Trail, which led to the Montana gold fields through an area important to his people. In 1866, he assumed leadership of a group of Sioux and Cheyenne and besieged the forts attempting to open the trail. The U.S. finally agreed to burn the forts and signed the Treaty of Fort Laramie with him, tricking him into moving his people on to a reservation. Crazy Horse, who led the forces of the ensuing Sioux Wars, supplanted him as chief of the Oglala Sioux. FTP, identify this Sioux chief that has a town in present-day Nebraska named after him.

Answer: Red Cloud

12. Much of what we learn regarding the title character's newspaper comes mainly out of his recorded conversations with Padilla. Through these replayed conversations, it can be seen how the title character uses his paper as a vehicle to protect his financial interests. Told through stream of consciousness, this novel traces the life of a dying political boss during and after the 1910 revolution in

Mexico. FTP, identify this 1962 novel that details the inner monologue of the title character, written by Carlos Fuentes.

Answer: *The Death of Artemio Cruz*

13. First proposed by Hermann Bondi, Thomas Gold, and Fred Hoyle in 1948, this theory postulates that matter is created throughout the universe at a rate of  $10^{-10}$  nucleons per meter cubed per year as a property of space. This was stated to compensate for the apparent expansion of the universe. Because it failed to account for the microwave background radiation, it has lost favor to the big bang theory in recent years. FTP, identify this cosmological theory that states the universe has a constant mean density and has always existed without beginning or end.

Answer: steady-state theory

14. This book held that the feudal division of classes continued into modern times, with the lords employing themselves uselessly while the lower classes labored at industrial pursuits to support the whole of society. This work defined waste as any activity not contributing to material productivity. Its author then described the privileged classes as justifying itself solely by practicing "conspicuous leisure and conspicuous consumption." FTP, identify this 1899 seminal work in economics by Thorstein Veblen.

Answer: *The Theory of the Leisure Class*

15. The son-in-law of Jacopo Bellini, he studied under Francesco Squarcione of Padua. The influence of his contemporary Donatello can be seen in his rendering of human forms. His first success was a series of frescoes on the lives of Saint James and Saint Christopher in the Ovetari Chapel. A pioneer in ceiling illusions, he moved to Mantua, where he produced some of his most famous works, including *Triumphs of Caesar*, *The Madonna of Victory*, and *Dead Christ*. FTP, identify this Italian painter of the Renaissance most famous for his rendering of *Saint Sebastien* being slain by arrows.

Answer: Andrea Mantegna

16. Described in some detail by the Spanish Muslim geographer al-Bakri, this kingdom's ruling dynasty belonged to the Soninke people. Its capital was at Kumbi Saleh in what is now southeastern Mauritania. Its principal enemies were the Sanhaja Berbers, who overran the kingdom in 1076. It was later revived, but finally destroyed when the Susu captured the capital in 1203. It arose in what is now southeastern Mauritania and southwestern Mali by the 5<sup>th</sup> century CE. FTP, identify this ancient African kingdom that gives its name to a present-day country with its capital at Accra.

Answer: Kingdom of Ghana

17. His works include a prose-epic concerning the life of Frederic of Prussia, the philosophical *A Study in Abjection*, the novel *Maya*, and the treatise *Intellect and Art*. A highly disciplined author with a strict regimen, he was walking by the mortuary chapel on the Ungererstrasse when he saw an itinerant stranger in a straw hat. Inspired by the unnatural desire to travel, he books passage to the title city, where he falls victim to a terrible disease while lusting after the young Polish boy Tadzio. FTP, identify this main character of Thomas Mann's *Death in Venice*.

Answer: Gustav von Aschenbach

18. One of his students was Emmanuel Lasker, the famous world chess champion. He proved his famous Basis Theorem in 1888 and he was thought at one point to have discovered the correct field equations for general relativity before Einstein. Though he spent much of his life searching for a "proof theory," the work of Gödel showed this impossible. He is known for his pioneering treatment of non-Euclidean geometry and his namesake "space." FTP, identify this German mathematician who, in 1900, proposed 23 fundamental problems that still challenge mathematicians of the 20<sup>th</sup> century.

Answer: David Hilbert

19. The maid Drusilla loves Ottone, who is blackmailed into making an attempt on the title character's life. Ottone dresses up as Drusilla to execute the deed, but is caught and exiled. For his undesired advice, Nero's advisor Seneca is put to death by the title character. The plot centers on Ottavia, the emperor's scheming ex-wife, who is about to be replaced as empress by the title character. She and Nero remove all obstacles from their paths and she is crowned empress. FTP, identify this work that centers on the crowning of the title character, the last opera of Monteverdi.

Answer: L'Incoronazione di Poppea or The Coronation of Poppea

20. In 1885, he made the first of many trips to British Columbia to study the Kwakiutl and other tribes. He organized and took part in the Jesup North Pacific expedition of 1902, which suggested the possibility of a strong relationship between northern Asian and northwestern Native American cultures. He pioneered the scientific approach to anthropology and became the first professor of anthropology at Columbia University. FTP, identify this pioneering anthropologist, the author of such works as *The Growth of Children*, *The Mind of Primitive Man*, and *Race, Language, and Culture*.

Answer: Franz Boas

21. He founded a postwar French journal, *Les Temps Modernes*, along with Jean-Paul Sartre and Simone de Beauvoir. His first important work was a critique of behaviorism entitled *The Structure of Comportment* published in 1942. However, this philosopher is better known for a detailed study of perception influenced by the work of Husserl and Gestalt psychology, which argued that science presupposes an original and unique perceptual relation to the world that cannot be explained or described in scientific terms. FTP, identify this existential French philosopher, the author of *Phenomenology of Perception*.

Answer: Maurice Merleau-Ponty

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**Bonus Questions**

1. Identify these cunning linguists from descriptions FTPE.

- a) This MIT professor is known as the founder of transformational-generative grammar. One of his most famous works, *Syntactic Structures*, relates the difference he perceived in people's innate understanding of their language and their actual knowledge.

Answer: Noam Chomsky

- b) His students compiled his most famous work after his death into the textbook *Course in General Linguistics*. This Swiss linguist's book greatly influenced the field of structural linguistics.

Answer: Ferdinand de Saussure

- c) Along with his famous student, he postulated the idea that language encodes radically different worldviews between cultures and that language, culture, and personality are fused as a whole. He defined language as a "symbolic guide to behavior."

Answer: Edward Sapir

2. Identify these seas from descriptions FTPE.

- a) The Kerchenskiy Strait connects this inland sea to the Black Sea. The chief ports on this sea are Taganrog in Russia, and Mariupol' and Berdyans'k in the Ukraine. The Don and Kuban' Rivers flow into this sea.

Answer: Sea of Azov

- b) Named for the British navigator that first explored it in 1823, this sea is situated south of the Falkland Islands, forming an indentation in Antarctica between the Antarctic Peninsula and Coats Land.

Answer: Weddell Sea

- c) Lying between the islands of Corsica and Elba and the Riviera coasts of northwestern Italy and Monaco, this sea's northern section is the Gulf of Genoa. It is linked to the Tyrrhenian Sea to the southeast.

Answer: Ligurian Sea

3. Given a description, identify the following heroes from the *Kalevala* FTPE.

- a) This wandering minstrel vies for the hand of the Maiden of Pohjola. He creates a magic kantele out of a giant pike's jawbone that can render unconscious all listeners.

Answer: Väinämöinen

- b) This warrior and reckless adventurer also vies for the hand of the Maiden of Pohjola. He is promised her hand if he can complete several impossible tasks, including fetching the swan of the Tuonela.

Answer: Lemminkäinen

- c) This angry youth's superhuman strength causes him to fail at every task he is given. He accidentally seduces his sister, kills Ilmarinen's wife, seeks revenge on Untamo for killing his family, and finally commits suicide.

Answer: Kullervo

4. Identify the following concerning chemical bonding FTSNOP.

- a) (5 points) This is a type of covalent bond in which one of the atoms supplies both the electrons.

Answer: coordinate covalent or semipolar or dative bonds

- b) (10 points) This is an inorganic complex in which a ligand is coordinated to a metal ion at two or more points, so that there is a ring of atoms including the metal.

Answer: chelate

- c) (15 points) This is the process of forming coordination complexes of an ion in solution. It often involves the formation of chelates and is used to prevent the chemical effect of an ion without removing it from the solution.

Answer: sequestration

5. It seems like all the British ever do is just plot. Identify these famous ones FTPE.

- a) This 1586 conspiracy to assassinate Elizabeth I was named after the page to Mary, Queen of Scots, the primary conspirator.

Answer: Babington Plot

- b) This 1683 conspiracy was organized by Whig Party members and attempted to assassinate Charles II and his brother, the future James II. They were to be killed while passing the namesake of the plot, but they did not arrive on the scheduled day and the plot was revealed.

Answer: Rye House Plot

- c) This conspiracy to kill James I in 1605 is celebrated annually on November 5, when hordes of angry Brits burn Guy Fawkes in effigy. There's nothing worse than an angry Brit.

Answer: Gunpowder Plot

6. Identify the following concerning Helen of Troy FTPE.

- a) She was the daughter of Helen and Menelaus. Neoptolemus and Orestes fought a duel over her in which Neoptolemus was killed.

Answer: Hermione

- b) Before Helen was old enough to marry, this hero abducted her. Her two brothers, Castor and Polydeuces, later rescued her.

Answer: Theseus

- c) She was Helen's sister, the wife of Agamemnon and lover of Aegisthus.

Answer: Clytemnestra

7. Identify these members of the Barbizon school from works FTPE.

a) *A Meadow Bordered by Trees*

Answer: Théodore Rousseau

b) *The Sower*

Answer: Jean-François Millet

c) *Morning: Dance of the Nymphs*

Answer: Camille Corot

8. Identify these volumes from Marcel Proust's *Remembrance of Things Past* FTPE.

a) The narrator's love for Gilberte slowly ends, and he falls in love with a little band of girls two years later, particularly Albertine. She refuses him at first, but later comes to live with him in Paris.

Answer: Within a Budding Grove

b) The first volume of the series, this part details most of the themes of the novel. The narrator remembers his childhood and then recounts the story of his love for Gilberte.

Answer: Swann's Way

c) The final part of Proust's work, the story centers on the many changes occurring across Europe due to WWI. While attending a party, the narrator finds most of his acquaintances unrecognizable and enjoys three "privileged moments" of memory.

Answer: The Past Recaptured

9. Identify the following concerning a certain class of space objects FTSNOP.

a) (5 points) These small bodies that have eccentric orbits around the sun can be defined as "dirty snowballs" composed of a tail, coma and nucleus.

Answer: comet(s)

b) (10 points) This spherical region on the edge of the solar system is thought to be the source of most long-period comets, estimated to contain up to  $10^{12}$  comets.

Answer: Oort cloud

c) (15 points) Most short-period comets are thought to originate in this large ring of icy objects that forms just beyond the orbit of Pluto and eventually merges with the Oort cloud. It is thought to contain about a billion comets.

Answer: Kuiper belt

10. Identify these famous American historians from works FTPE.



- a) *The First Salute; Stilwell and the American Experience in China: 1911-1945; The Guns of August*

Answer: Barbara Tuchman

- b) *Montcalm and Wolfe; History of the Conspiracy of Pontiac; The Oregon Trail*

Answer: Francis Parkman

- c) *History of the Reign of Ferdinand and Isabella the Catholic; History of the Conquest of Mexico; History of the Conquest of Peru*

Answer: William Hickling Prescott

11. Identify these works of Immanuel Kant from descriptions FTPE.

- a) The keystone of Kant's philosophy is discussed in this 1781 work, in which he examines the bases of human knowledge and creates an individual epistemology. He differentiates modes of thinking into analytic and synthetic propositions.

Answer: Critique of Pure Reason

- b) Kant described his ethical system in this 1797 work. Moral law is given by two commands of reason: the hypothetical imperative, which dictates a given course of action to reach a specific end; and the categorical imperative, which dictates a course of action that must be followed because it is necessarily right.

Answer: Metaphysics of Ethics

- c) This 1795 treatise demonstrated Kant's philosophy as related to government and law. This work advocated the establishment of a world federation of republican states.

Answer: Perpetual Peace

12. Identify these archaeologically significant sites from descriptions FTPE.

- a) This site on the Suffolk coast opposite the town of Woodbridge, England is the richest ship burial discovered in Europe. The burial shows an interesting mixture of Christian and pagan ideas, including a Byzantine bowl and spoons that may have been part of a baptism ritual.

Answer: Sutton Hoo

- b) Hiram Bingham discovered this ruined city of the Incas in 1911. Since it was not mentioned in the writings of Spanish explorers, it is believed to be the last refuge of Incas fleeing the Spanish from Cusco.

Answer: Machu Picchu

- c) Excavated by Sir James Breasted, this ancient city located at Takht-I Jamshid was the capital of the Achaemenid dynasty until Alexander the Great destroyed it.

Answer: Persepolis

13. Identify these parts of Chaucer's *The Canterbury Tales* from descriptions FTPE.



- a) Alison, the wife of the old carpenter John, loves Nicolas, the young scholar boarding in their house. Alison rejects the advances of the young fop Absolon. When Nicolas insults Absolon by showing him his rump, the fop burns him with a hot brand.

Answer: *The Miller's Tale*

- b) Told in response to *The Miller's Tale*, this story centers on the scholars John and Alan, who trick the miller Simkin by sleeping with his daughter and wife and stealing his grain.

Answer: *The Reeve's Tale*

- c) The aged January loses his eyesight and his young wife May decides to have an affair with his squire Damyan in a pear tree. The god Pluto gives January his sight back so he can see what is happening, but Proserpina helps May by tricking January into thinking her infidelity was necessary for him to see again.

Answer: *The Merchant's Tale*

14. Identify the following terms Roger barely remembers from his electromagnetism class FTPE.

- a) This is a device consisting of two dissimilar metal wires or semiconducting rods welded together at their ends. An e.m.f. is generated in this device when the ends are maintained at different temperatures, the magnitude of the e.m.f. being related to the temperature difference.

Answer: thermocouple

- b) This effect is the basis of the thermocouple. An e.m.f. is generated in a circuit containing two different metals when the junctions between the two metals are at different temperatures.

Answer: Seebeck effect

- c) This effect results when there is a change in temperature at the junction of a circuit consisting of two dissimilar metals when an electric current flows. The temperature either rises or falls depending on which way the current flows.

Answer: Peltier effect

15. Identify these Radical Republicans of the Civil War and Reconstruction eras FTPE.

- a) He urged Lincoln to issue the Emancipation Proclamation and sponsored the legislation that later became the Fourteenth Amendment. This Pennsylvania representative also led the impeachment proceedings against Andrew Johnson.

Answer: Thaddeus Stevens

- b) This Radical Republican delivered a speech entitled "The Crime Against Kansas" to the Senate in 1856. He severely criticized Andrew Butler from South Carolina and was subsequently caned by Butler's nephew in the Senate chamber two days later.

Answer: Charles Sumner

- c) Along with Representative Henry Winter Davis, this Senator from Ohio proposed a bill that would have required one-half of a state's white male citizens to swear loyalty to the Constitution before a new state government could be formed. Lincoln vetoed the bill in 1864.

Answer: Benjamin F. Wade

16. Given a description, identify the following religious positions in Islam FTPE.

- a) This person sits atop the minaret and makes the public call to prayer five times a day.

Answer: muezzin

- b) This person leads the community prayers in a mosque and acts as leader of a Muslim community. He usually conducts marriages and funerals.

Answer: imam

- c) This person is a spiritual leader that specifically leads the Friday sermon.

Answer: khatib

17. Given the title of a work, identify the writer and musical composer that both have works with the same title FFPE.

- a) *War and Peace*

Answer: Leo Tolstoy and Sergey Prokofiev

- b) *Pilgrim's Progress*

Answer: John Bunyan and Ralph Vaughan Williams

- c) *The Barber of Seville*

Answer: Pierre de Beaumarchais and Gioacchino Rossini

18. Identify the following concerning the life and works of poet John Berryman FTPE.

- a) Each poem in this 1969 collection is a trio of six-line stanzas written in the voice of a persona, Mr. Henry. Perhaps Berryman's most famous work, this collection contains posthumous additions that are prophetic of his eventual suicide.

Answer: *The Dream Songs*

- b) This free verse poem, published in 1956, is a fifty-seven-stanza tribute to an early American Puritan poet. Written in the first person, the title character speaks in interior monologue and divulges her fear that she is too "worldly" and self-indulgent.

Answer: *Homage to Mistress Bradstreet*

- c) Along with Robert Lowell, Anne Sexton, and Sylvia Plath, Berryman was considered part of this group of American poets. Though difficult to categorize by a common technical approach, they all displayed themes of angst and disenchantment with life in post-WWII society.

Answer: Confessional Poets

19. Identify the following concerning the anatomy of the heart FTPE.

- a) This is a specialized group of cardiac muscle fibers situated in the fibrous ring between the right atrium and ventricle. It is the only pathway between the atria and the ventricles through which electrical impulses can pass.

Answer: atrioventricular node or AV node

- b) This is the group of cardiac muscle fibers spread out in a network over the ventricles and transmit electrical impulses to the entire heart. Their extensive branching allows impulses from the SA node to be transmitted very rapidly.

Answer: Purkinje fibers or Purkyne fibers

- c) The impulses from the AV node are sent here, the site where the Purkinje fibers originate.

Answer: bundle of His

20. Identify the following concerning modern Chinese history FTPE.

- a) In 1957, Mao Tse-tung implemented this program that attempted to win the support of Chinese intellectuals by calling for their constructive criticism of the policies of the Communist Party. However, the results were too disparaging and Mao imposed strict controls on freedom of expression.

Answer: Hundred Flowers Campaign

- b) In a reaction to the Hundred Flowers Campaign, Mao implemented this economic and social plan in 1958, with the intent of radically increasing agricultural and industrial production in China and of bringing China to the brink of a utopian society.

Answer: Great Leap Forward

- c) This was the clique of Mao's who implemented the most extreme policies of China's Cultural Revolution during the 1960s and 1970s. The group consisted of Mao's third wife and three other minor officials made prominent by the Cultural Revolution.

Answer: Gang of Four

21. Given a list of characters, identify the daytime TV soap opera in which they appear FTPE. [Editor's note: I swear I spent the minimal amount of time necessary to research this bonus. I have not, nor will I ever, watch one of those cockamamie shows, so help me God!]

- a) Carly Quartermaine, Elizabeth Webber, Luke Spencer, Stefan Cassadine

Answer: General Hospital

- b) Brooke English, Mateo Santos, Jake Martin, Erica Kane

Answer: All My Children

- c) India von Halkein, Prince Richard Winslow, C. Blake Thorpe Marler, Vanessa Chamberlain Lewis Reardon

Answer: Guiding Light