

**KICK: ASS**

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

**Packet by Roger Bhan**

**Toss-Up Questions**

1. He was a schoolmate of Jonathan Swift at Trinity College. His first play was published under the auspices of Dryden, and was very well received. He engaged in a controversy with Reverend Jeremy Collier, who attacked the lewdness of the English stage, and had this playwright prosecuted as a result. His early works, *The Old Bachelor* and *The Double Dealer* demonstrated his wit, but is remembered for his play *The Mourning Bride*, from which we get the phrase, "Music hath charms to soothe a savage breast." FTP, identify this 18<sup>th</sup> century British playwright, the creator of *The Way of the World*.

Answer: William Congreve

2. Though it is impossible to say what velocity any particular molecule will have, certain statistical statements regarding certain functions of the molecules were worked out by the two namesake scientists of this law. One form of this law states that the number of molecules with energy in excess of the energy of the system equals the number of total molecules raised to the power of the negative of the energy over the gas constant times the temperature. FTP, identify this law that describes the distribution of speeds among the molecules of a gas.

Answer: Maxwell-Boltzmann distribution

3. The papal bull *Laudabiliter*, normally attributed to him, may have been a forgery. The term "Vicar of Christ" began to be used to describe the pope during his brief pontificate. He was cardinal bishop of Albano and papal legate to Scandinavia before rising to the papacy himself. During his reign, he had Arnold of Brescia, the reformer who opposed his power, seized by Frederick I of Germany. Elected to the position upon the death of Anastasius IV, FTP, identify history's only British Pope.

Answer: Adrian IV

4. It is formed by the junction of the Shilka and Argun rivers. Its major tributaries include the Zeya, Songhua, Ussuri, and Bureya rivers. Important cities on this river include Tongjiang, Heilong Jiang, Aihui, Blagoveshchensk, and Khabarovsk. Flowing, southeast for about 1600 kilometers, this river then makes a turn northeast and empties into the Tatar Strait. At 2,874 miles long, this is, FTP, what river of Asia that forms part of the border between Russia and China?

Answer: Amur

5. In 1855, he sailed as a cabin boy to Australia and India, where he was appalled by the extremes of wealth and poverty. In 1871, he wrote the pamphlet *Our Land and Land Policy*, in which he argued that the boom in the West was making most people poor and only a few rich. His fame rests on his economic works, such as *Social Problems*, and *Protection or Free Trade*. His most famous work brought him fame as an opponent of poverty and the injustices of modern capitalism. FTP, identify this American economist and sociologist famous for his work *Progress and Poverty*.

Answer: Henry George

6. Produced on Broadway under the title *Red Gloves*, this drama concerns Louis and his faction of the Proletarian Party. They consider the policies of Hoederer inexpedient and send Hugo, under the pretense of being a secretary, to kill him. Hugo assassinates Hoederer while he is kissing Jessica. However, the Party switches policies and Hugo is arrested. After serving a prison sentence, he is examined to see if he is capable of future Party objectives. FTP, break out the soap and identify the play by Jean-Paul Sartre.

Answer: Dirty Hands

7. Thromboxane  $A_2$  causes blood clotting while prostacyclin causes blood vessels to dilate. They are involved in inflammation, being released from affected tissues. Natural and synthetic ones have been used to induce abortion or labor in humans and domestic animals. They act at very low concentrations to cause the contraction of smooth muscle, and have been detected in most body tissues. FTP, identify this term for any of a group of compounds derived from fatty acids and cause a variety of physiological effects in animals.

Answer: prostaglandin

8. Only one American was killed, but that was enough to spark international controversy. The steamer had been used by American sympathizers to carry supplies to a party of Canadian rebels on Navy Island, above Niagara Falls. In 1840, the British asserted that the destruction of the ship was a legitimate act of war, but the U.S. demanded redress on the grounds that the Canadians had invaded U.S. territory in peacetime. FTP, identify this 1837 affair in which an American ship was seized and destroyed by Canadians on the American side of Niagara River.

Answer: Caroline affair or incident

9. It was written while the author was in jail awaiting execution. It consists of a dialogue in alternating prose and verse between the author, lamenting his own sorrows, and a majestic woman, the title character and the incarnation of his guardian. She develops a modified form of Neoplatonism and Stoicism, demonstrating that God is all-good and all-powerful and, despite the fact that God is all-knowing, man is blessed with free will. FTP, identify this 6<sup>th</sup> century philosophical work written by Boethius.

Answer: The Consolation of Philosophy

10. She was a daughter of the sky god Ouranos and the earth mother Gaia, though she was not considered one of the Titans. As a consort of Zeus, she gave birth to the Horae and Moires, and she is often paired with Nemesis, the goddess of indignation. Attended by Aeacos, Minos, and Rhadamanthos, the three lesser judgment deities, she sits blindfolded in Hades and determines the fates of the souls brought before her, deciding whether to send them to Tartarus or the Elysian fields. FTP, identify this Greco-Roman goddess of justice and order.

Answer: Themis

11. Federico Fregoso, Lodovico Di Canossa, Bernardo Bibbiena, Giuliano de' Medici, Pietro Bembo, Ottaviano Fregoso, Emilia Pia, and the hostess Elisabetta Gonzaga are all interlocutors in this work. Published during the Renaissance, its second book is devoted to language, the kind and the occasion of speech, as well as the manner of addressing oneself to princes and friends. The final book, the fourth, deals with the true role of a gentleman, to guide a prince in affairs of state. FTP, identify this 1528 handbook on how to be a gentleman by Baldassare Castiglione.

Answer: Il cortegiano or The Courtier

12. A graph of the natural log of  $k$  against the reciprocal of the temperature is a straight line with a gradient of the negative of the activation energy over the gas constant and an intercept on the natural log of  $k$  axis of the natural log of  $A$ , which serves as a constant called the pre-exponential factor. In this equation,  $k$  is the rate constant of a given reaction,  $R$  is the universal gas constant, and  $T$  is the temperature. FTP, identify this equation used to find the activation energy of a reaction named after a Swedish chemist.

Answer: Arrhenius equation

13. Fought at a site in Dinwiddie County, Virginia, General George Pickett was ordered to hold a defensive position at the vital South Railroad and White Oak road. The Union under General Philip Sheridan attacked with superior forces and overwhelmed the Confederates, who fled in retreat covered by cavalry. The Union thereby gained possession of the road and railroad and forced Lee to abandon his defense at Richmond. Eight days later, Lee surrendered at Appomattox Court House. FTP, identify this April 1, 1865 engagement, the last major battle of the Civil War.

Answer: Battle of Five Forks

14. He studied under Sigmund Freud, but broke with him in 1911 to found a neo-Freudian school of psychoanalysis. In contrast to Freud, he stressed a sense of inadequacy, rather than sexual drives, was the motivating force in human life. He believed this sense of inadequacy, combined with defense mechanisms, caused most psychopathological behavior. The author of *The Theory and Practice of Individual Psychology* and *The Pattern of Life*, FTP, identify this Austrian psychoanalyst, the creator of the inferiority complex.

Answer: Alfred Adler

15. Its supreme god is Olodumare. Human interaction with the divine typically rests on spirits, or orishas. An individual believer generally develops a special relationship with a particular orisha, and during worship the orisha may possess the body of the believer. Religious ceremonies are lengthy and elaborate, and usually practitioners ritually slaughter animals. FTP, identify this primarily Afro-Cuban religion rooted in the Yoruba culture of Western Africa.

Answer: Santería

16. Its second stanza begins, "Take from the dresser of deal / Lacking the three glass knobs, that sheet / On which she embroidered fantails once / And spread it so as to cover her face." The poem goes on to talk about the dresser's horny feet and how cold and dumb she is. The first stanza, definitely more recognizable, urges "the muscular one" to let the wenches dawdle in such dress and let the boys bring flowers in last month's newspapers. FTP, identify this Wallace Stevens poem that begins, "Call the roller of big cigars..."

Answer: *The Emperor of Ice-Cream*

17. If a gas is ideal, this function is equal to the gas' pressure. The ratio of this function to the function in a standard state measures the activity of a reaction. This function of a liquid or solid is the same for the vapor with which it is in equilibrium with. The derivative of this function's natural log is equal to the derivative of the chemical potential for a reaction. FTP, identify this thermodynamic quantity that replaces the values for pressure in reactions that involve real gases, denoted by the letter *f*.

Answer: fugacity

18. This name is given to the effect in which two hurricanes find a common center and "pinwheel" around each other. The name is better known, however, as a dynasty that began when Yoshifusa acquired the office of sessho, which then became the hereditary seat of power in his family. His nephew, Mototsune, became the first kampaku, or chancellor. However, the greatest member of this dynasty had his five daughters marry the five successive emperors. FTP, identify this Japanese noble family that was ousted by the Taira clan in 1160, and whose greatest leader was Michinaga.

Answer: Fujiwara

19. He conducted the American premiers of Smetana's *The Bartered Bride* and Tchaikovsky's *Queen of Spades*. He also conducted the New York Philharmonic, earning the highest salary at that time for a conductor in the U.S. He refused to compose a ninth symphony after realizing that Beethoven and Bruckner had died after their ninths. Instead, he called his ninth *Das Lied von der Erde* or *The Song of*

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*the Earth*, but eventually titled his next one Ninth, and died in the midst of his Tenth. FTP, identify this Bohemian composer of *Symphony of a Thousand* and *The Titan*.

Answer: Gustav Mahler

20. Two figures lurk in the shadowy recesses. The one on the right, probably a male, looks enraged and carries a bowl in both hands. The figure on the left, most likely female, bears a melancholy expression and toys with a dagger. Between these two figures sits the title character in a grand wooden throne. She looks up and to the left, one arm raised, the other casually slung over the armrest of the throne. She is highly illuminated against the dark background, wearing a flowing red dress with pearls. FTP, identify this 1784 Sir Joshua Reynolds painting that depicts a famous British actress as a Greek goddess.

Answer: Mrs. Siddons as the Tragic Muse

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**Bonus Questions**

1. Given a list of musical pieces, identify the Russian nationalist composer who created the work FTPE.

a) *William Ratcliffe, The Captain's Daughter, and The Saracen*

Answer: Cesar Cui

b) *Russia, Tamara, and Islamey*

Answer: Mily Balakirev

c) *Scheherazade, The Flight of the Bumble Bee, and L'Coq d'Or or The Golden Cockerel*

Answer: Nikolai Rimsky-Korsakov

2. Identify the following photographers given a description FTPE.

a) She turned from sculpture to photography at the behest of Man Ray, her mentor. She is most famous for her pioneering camera work in the physical sciences and her documentation of New York City in her epic *Changing New York*.

Answer: Berenice Abbott

b) He became famous early on for his photographs *The Car Horses at the Terminal* and *Winter Fifth Avenue*. A pioneer in turning photography into an art form, he is best remembered for his marriage to Georgia O'Keefe and his cycle of cloud pictures, *Songs of the Sky*.

Answer: Alfred Stieglitz

c) His painstaking control of tonality and detail made him unequalled as a technical master of the black and white print. He is best remembered for his black and white photographs of Yosemite National Park, the California coast, and other wilderness areas of the American West.

Answer: Ansel Adams

3. These random works of literature are all set in wonderful, magical places filled with ethereal elixirs of happiness: bars. Identify these works FTPE from plot descriptions, or FFPE if you need the author.

a) (10 points) The conversations Hickey has with his cronies in the back room of the End of the Line Café form the plot for this drama.

(5 points) Eugene O'Neill

Answer: *The Iceman Cometh*

b) (10 points) The theme of this work is the problem of whether to live without illusions and on one's own strength, as purported by the thief Satan, or to shield oneself from the pain of life by accepting a romanticized view of the world, as thought by the pilgrim Luka.

(5 points) Maksim Gorky

Answer: The Lower Depths

- c) (10 points) In this short story, a Swede comes to a Nebraska bar, provokes a fight, gets killed, and leaves the patrons of the bar wondering whose fault it was.

(5 points) Stephen Crane

Answer: The Blue Hotel

4. Identify these various types of chromatography FTPE.

- a) A spot of the mixture to be analyzed is placed near the edge of an absorbent substance, and it is placed vertically in a solvent, which rises through the substance and separates the components due to their different molecular weights.

Answer: paper chromatography

- ~~b) This technique for analyzing liquid mixtures involves a stationary phase of an absorbing solid, such as alumina, prepared by spreading a slurry of the solid on a plate and drying it in an oven. A spot to be analyzed is placed near the edge, and the plate is suspended vertically in the oven.~~

Answer: thin-layer chromatography

- c) The apparatus for this technique involves a very long tube containing the stationary phase, which may be a solid or nonvolatile liquid. The components of a liquid mixture pass through the tube at different rates, indicating the structure of the mixture.

Answer: gas chromatography

5. Identify these Roman Emperors from descriptions FTPE.

- a) Originally named Bassianus, he was given his nickname for introducing a long cloak from Gaul to Rome. He became co-ruler with his brother Geta upon his father's death, but murdered his brother and several thousand of his followers so that he could rule alone.

Answer: Caracalla or Marcus Aurelius Antoninus

- b) When Valens was killed at the Battle of Adrianople in 378 CE, Gratian picked this man to rule in the Eastern Empire. After his favorable negotiations with the Goths, he restored Valentinian as Emperor in the West after Gratian had been murdered.

Answer: Theodosius I or Theodosius the Great

- c) This emperor tried to restore the Empire to paganism after renouncing Christianity, adopted for the Empire by Constantine the Great. He died fighting the Persians in Mesopotamia in 363 CE.

Answer: Julian the Apostate

6. Identify these geographical features of India FTPE.

- a) This large Indian desert lies primarily in the state of Rajasthan. It crosses into eastern Pakistan. It is bounded on the Sutlej River on the northwest, on the east by the Aravalli Range, and on the west by the Indus Valley.

Answer: Thar Desert

- b) Lying mostly in the state of Gujarat, this barren area of salt marshes and mud flats borders the Thar Desert to the northwest. It is a large, treeless, arid area that sometimes floods during the monsoon season.

Answer: Rann of Kutch

- c) Divided into Eastern and Western ranges, these mountains in southern India dominate the geography of the state of Kerala. The area between the halves of this mountain range is called the Deccan Plateau.

Answer: Ghats

7. Identify these Latin American archaeological sites from descriptions FTPE.

- a) Lying in the Yucatán Peninsula, this Mayan city with heavy Toltec influences was founded in the 6<sup>th</sup> century CE. It is famous for its Ball Court that was used for symbolic religious games, and El Castillo, a large pyramidal mound with a temple to Kukulcan at the top.

Answer: Chichén Itzá

- b) Lying northeast of Mexico City, this site contains the remains of the largest pre-Colombian city in the western hemisphere. Influenced by the Mayans and the Aztecs, its noteworthy structures include the Pyramid of the Sun and the Avenue of the Dead.

Answer: Teotihuacán

- c) This site of pre-Inca ruins in Bolivia, southeast of Lake Titicaca, is near the modern village of the same name. Its location in the Andes makes it the highest city in the ancient world. The Aymara people are believed to have founded it.

Answer: Tiahuanacu

8. Identify these works by Mark Twain from descriptions FTPE.

- a) Satan makes an appearance in this story under the name Philip Traum. He convinces some boys of the falseness of morals, the kindness in killing a cripple, and the nonexistence of heaven.

Answer: *The Mysterious Stranger*

- b) This travel book is based on a series of letters he wrote from Europe to San Francisco and New York newspapers as a roving correspondent. This book burlesques hallowed European landmarks without reverence for the past.

Answer: *The Innocents Abroad* or *The New Pilgrim's Progress*

- c) David goes by this nickname that forms the title of this novel. The people fail to understand his combination of wisdom and eccentricity, but he redeems himself by solving a murder mystery and a case of transposed identities.

Answer: *The Tragedy of Pudd'nhead Wilson*

9. Identify these plant hormones from descriptions of their functions FTPE.

- a) These hormones stimulate the differentiation and branching of roots, and are involved in phototropism and gravitropism. They are also involved with stem elongation and apical dominance.



Answer: auxins

- b) This hormone inhibits growth, closes stomata during water stress, and counteracts the breaking of dormancy.

Answer: abscisic acid

- c) This hormone promotes fruit ripening and opposes some of the effects of auxins. It promotes or inhibits the growth and development of roots, leaves, and flowers, depending on the species.

Answer: ethylene

10. Identify the following concerning the Embargo Act of 1807 FTSNOP.

- a) (5 points) Under whose presidency was the Embargo Act enacted?

Answer: Thomas Jefferson

- b) (10 points) The Embargo Act was repealed two years later by this act, which reactivated American commerce with all countries except Great Britain and France.

Answer: Non-Intercourse Act

- c) (15 points) The Embargo Act met with much disapproval and flagrant violations of the law abounded. In 1809, Congress passed this act to tighten applications of the Embargo Act.

Answer: Enforcement Act

11. Identify these anthropologists from works FTPE.

- a) *The Chrysanthemum and the Sword: Patterns of Japanese Culture*

Answer: Ruth Benedict

- b) *Magic, Science, and Religion*

Answer: Bronislaw Malinowski

- c) *The Forest of Symbols: Aspects of Ndembu Ritual*

Answer: Victor Turner

12. Identify these philosophical terms from definitions FTPE.

- a) This is an error in reasoning, or more precisely, a mistake made in the process of moving from the premises of an argument to the conclusion, in logic.

Answer: fallacy

- b) This Latin phrase denotes knowledge of the kind that is derived from intellect or reason as contrasted with that which comes from sense experience.

Answer: a priori

- c) This is the reconciliation of different belief systems in philosophy or religion.



Answer: syncretism

13. Identify these works by Charles Dickens FTPE.

- a) This unfinished novel details the story of the title character and Rosa Bud, both orphans, who have been betrothed by their fathers, and are to marry when the title character turns twenty-one years old.

Answer: *The Mystery of Edwin Drood*

- b) Amy, the title character, born and raised in prison with her family, spends most of her life there. Suddenly, the family becomes wealthy and pretentious, no longer the humble, good people of before. Only Amy is the same.

Answer: *Little Dorrit*

- c) Revolving around the anti-Catholic Gordon Riots of 1780, this work depicts the titular character innocently participating for the sake of carrying a flag and wearing a blue bow.

Answer: *Barnaby Rudge*

14. Identify these different types of microscopes F15PE.

- a) This type of microscope aims an electron beam through a thin section of the specimen. This microscope uses electromagnets as lenses to focus and magnify the image by bending the trajectories of the charged electrons.

Answer: TEM or transmission electron microscope

- b) This type of microscope is useful for detailed study of the surface of the specimen. Electron beams scan the surface of the sample, usually coated in a film of gold. The beam excites the surface of the sample and the secondary electrons emitted are collected and focused onto a screen.

Answer: SEM or scanning electron microscope

15. Identify the following individuals associated with the Watergate scandal FTPE.

- a) When Attorney General Richard Kleindienst resigned, this man assumed his position and appointed Archibald Cox as the special prosecutor for the case.

Answer: Elliot Richardson

- b) In May 1973, the Senate Select Committee on Presidential Activities opened hearings, with this Senator from North Carolina presiding.

Answer: Sam Ervin

- c) When Nixon ordered Elliot Richardson to dismiss Archibald Cox as special prosecutor, Richardson resigned, as did Deputy Attorney General William Ruckelshaus. Finally, this man, the Solicitor General at the time, dismissed Cox.

Answer: Robert Bork

16. Identify these world religions F15PE.

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- a) This was a pre-Buddhist faith of many Tibetan people. Probably shamanistic in origin, it underwent a transformation in reaction to the arrival of Buddhism in the 8<sup>th</sup> and 9<sup>th</sup> centuries. Most religious practices of this faith are clearly copied from Buddhism.

Answer: Bon

- b) This religion, named after the people of southern Sudan that practice it, is dominated by the sky god Nhialic, who speaks through spirits who take possession of individuals. The sacrificing of oxen forms a central component of the faith and is carried out by leaders known as Spear-Masters.

Answer: Dinka religion

### 17. Identify the following concerning the Danaides FTPE.

- a) The Danaides were the fifty daughters of Danaus who fled with his children to flee the fifty sons of what man, Danaus' twin brother?

Answer: Aegyptus

- b) Danaus and his fifty daughters fled to this city, the favorite city of Hera.

Answer: Argos

- c) Aegyptus and his sons finally coerced Danaus into giving the Danaides in marriage to Aegyptus' fifty sons. Danaus urged his daughters to kill their husbands on their wedding night, but only one spared her husband. Identify this woman.

Answer: Hypermnestra

### 18. Identify these works of Ovid FTSNOP.

- a) (5 points) This fifteen-book work epic details all the major Roman myths, starting from the creation of the world to the deification of Caesar.

Answer: Metamorphoses

- b) (10 points) This handbook on love was dedicated to Augustus' daughter Julia, which is what probably got Ovid exiled.

Answer: Ars Amatoria or The Art of Love

- c) (15 points) This poetic work is dedicated to the festivals and holidays of the Roman calendar.

Answer: Fasti

### 19. Identify these physical constants from descriptions FTPE.

- a) This constant represents the electric charge carried by one mole of electrons or singly ionized ions, i.e. the product of the Avogadro constant and the charge of an electron.

Answer: Faraday constant

- b) This is the ratio of the universal gas constant to the Avogadro constant, which may be thought of as the gas constant per molecule.

Answer: Boltzmann constant

- c) This is the fundamental constant equal to the ratio of the energy of a quantum of energy to its frequency. Its rationalized form is known as the Dirac constant, and is this constant divided by two times pi.

Answer: Planck constant

20. Identify the following battles of the Wars of the Roses FTPE.

- a) In this 1460 battle, Richard Plantagenet, 3<sup>rd</sup> Duke of York was killed and his army was defeated by the Lancastrian Henry VI and Margaret of Anjou.

Answer: Battle of Wakefield

- b) Richard Neville, Earl of Warwick, aided by George Plantagenet, duke of Clarence, made an alliance with Margaret of Anjou and led an invasion of England from France in 1470 that drove Edward into exile and restored Henry to the throne. Edward returned in 1471 and defeated Warwick at this battle.

Answer: Battle of Barnet

- c) This final battle of the Wars of the Roses was fought in 1485 between Henry VII Tudor and Richard III Lancaster.

Answer: Battle of Bosworth Field