

**Ebowla 2001
Carnegie Mellon University
Packet #6**

11/15/01
10/21/04

TOSSUPS

1. He played the trombone in concerts to support himself after graduating from college. Much of his work is choral, such as "The Hymn of Jesus," and he played a major part in the revival of English folk song. An interest in Hindu literature inspired "Savitiri" and "The Cloud Messenger," but it was an astrology habit that led him to his most popular work. For 10 points, name this English-born composer of "The Planets."

Answer: Gustav Holst

2. He wishes that his daughter Ezinma were a man, because she has great strength of character. His main avocation is wrestling, and he acts as a negotiator for his people. He kills three men – the slaying of Ikemefuna [ih-KAY-muh-FOO-nah] is sanctioned, the second earns him banishment, and the third results in his suicide. For 10 points, name this man, the central figure in "Things Fall Apart."

Answer: Okonkwo

3. Founded near the ashes of the previous Harrisburg settlement by John and Augustus Allen, it is situated between flood-prone Brays and Buffalo Bayous. The Montrose area is home to Hermann Park and the museum district, while Clear Lake is home to the Johnson Space Center. The seat of Harris County, for 10 points, name this largest Texas city.

Answer: Houston, Texas

4. Older accounts refer to the battle's site as Redemore. The Duke of Norfolk died in the early skirmish on Ambien Hill, and Northumberland did not engage his reserves. Thomas and William Stanley switched allegiance to Henry Tudor and attacked the king's flank, securing victory. For 10 points, name this battle which ended the Wars of the Roses and Richard III.

Answer: Battle of Bosworth Field

5. A problem with the front sway bars in cold weather has led to a recall on the 1997 model. Redesigned for the 2001 season, it features a new independent rear suspension system. Varieties include the Eddie Bauer, XLT, and the new SportTrac. For 10 points, name this SUV that has gained notoriety for its difficulties with Firestone tires.

Answer: Ford Explorer

6. If Avogadro's number were infinite, this phenomenon would not take place. Were it much smaller, any effect would go unnoticed. Therefore, it can be used to approximate Avogadro's number, and Jean Perrin did so, studying the density of gel particles in a drop of water. For 10 points, name this stochastic process discovered by watching the activity of pollen in water.

Answer: Brownian motion

7. His "Investigations in Natural Science" is the only extant Roman physics text, and it is full of inaccuracies. He was somewhat better as a philosopher – his "Epistles and Discourses" include several tracts on the virtue of suffering and temperance. As a teacher, he tried to instill classical values in his royal pupil, but was later commanded to kill himself. For 10 points, name this Stoic philosopher, playwright, and teacher of Nero.

Answer: Lucius Annaeus Seneca

8. It grew from Oliver Kelley's trip to the south while working for the Agriculture Department. Surprised at their poor methods, Kelley created the Patrons of Husbandry to promote modern techniques and fraternity. Named for the local units that soon became active in politics, for 10 points, what was this group that successfully lobbied for regulation of railroad and storage prices?

Answer: Granger Movement (prompt on early "Patrons of Husbandry")

9. "She has a tongue that scalds and that bites like a bull whip ... She is of an unbelievable barbarousness." She has some gypsy blood and is superstitious – her first act is to perform a palm reading. Protective of Maria, it is she who effectively leads Pablo's Loyalist band. For 10 points, name this character in *For Whom the Bell Tolls*.

Answer: Pilar

10. He became an editor of "The Economist" in 1848, advocating that liberal arts education be subordinate to science. An early proponent of evolution, he believed that a "persistence of force" was the major principle in the universe. For 10 points, name this author of the ten-volume "System of Synthetic Philosophy."

Answer: Herbert Spencer

11. Because it is extrapolated from the zero point, it provides much more accurate results for low concentrations. Its namesake coefficients generally decrease with higher temperatures, which explains why soda goes flat quicker on hot days. For 10 points, name this chemical principle that the solubility of a gas in a liquid is proportional to the pressure of the gas above the solution.

Answer: Henry's Law

12. Voyager 2 recorded surface temperatures of 38-Kelvin, making it perhaps the coldest object in the solar system. "Ice volcanism" may explain certain surface features, and it bears many resemblances to Pluto. It has a retrograde, six-day orbit at a 23-degree declination, suggesting it may have been captured. For 10 points, name this largest moon of Neptune.

Answer: Triton

13. It ends "For, having lost but once your prime, / You may forever tarry." Set to a number of melodies soon after its creation, it uses the arc of the sun as a metaphor for life, and further states "That age is best which if first." Part of the collection "Hesperides," for 10 points, name this Robert Herrick poem that begins, "Gather ye rosebuds while ye may."

Answer: To the Virgins, to Make Much of Time

14. Saint Vincent de Paul was in their custody for nearly 20 years before escaping. Simon Danser convinced them to abandon galleys for sailing ships. Their name comes from the Arabic for "redbeard," the nickname of Kayr ad-Din, who used them in seizing Algeria and Tunisia. For 10 points, name this group of corsairs who attacked European shipping and exacted tribute along the North African coast.

Answer: Barbary pirates or corsairs

15. Among his last works are portraits of his wife and the "Equivalents," studies of clouds that indicate emotion. Born in New Jersey, he studied engineering in Berlin, but changed disciplines when he bought a camera. Returning to the US, he formed the 291 Gallery with Edward Steichen for their Photo-Secessionist group. For 10 points, name this art photographer of "The Terminal" and "The Steerage."

Answer: Alfred Stieglitz

16. The bovine strain can infect human gastrointestinal systems and affects bones and joints, accounting for about 10% of modern cases. Caused by a Mycobacterium, primary infections causes the namesake lesion of dead tissue surrounded by phagocytic cells. Formerly treated with streptomycin, several resistant strains have increased the incidence of, for 10 points, this disease also called consumption.

Answer: tuberculosis (prompt on early "consumption")

17. A native of Dryden, Ontario, he was the second overall pick of the 1993 draft, and his current team aquired him in a trade for Brendan Shanahan. Notorious for averaging 30 minutes a game, he was the first man since Bobby Orr to win both the Norris and Hart trophies in the same season, doing so in 1999. For 10 points, name this hard-hitting defenseman, captain of the St. Louis Blues.

Answer: Chris Pronger

18. The introduction is told from the vantage of an old friend of the narrator. The narrator, an unhappily married lawyer, promises to deliver a manuscript detailing his relationship with a childhood friend. The heroine has a child out of wedlock with Larry Donovan, but eventually settles with Anton Cusak. Jim Burden displays his nostalgia for her and the Nebraska prairie in, for 10 points, this Willa Cather novel.

Answer: My Antonia

19. His original cult centered on his identity as a shepherd and patron of the pastoral arts, and he is cited as an ancestor of Gilgamesh. Associated with Adonis, he was originally a mortal king whose marriage to the fertility goddess deified him. He is taken to the underworld by demons in the summer, causing the infertile season. Known in Sumeria as Dumuzi, for 10 points, name this Mesopotamian god, husband of Ishtar.

Answer: Tammuz

20. Two deserters informed the defenders when the attack would begin. The result of Operation Citadel, it was prompted by a salient created after the capture of Kharkov in March 1943. The attack was delayed to July, giving the Soviets time to install heavy defenses. German hopes in the east were crushed, and 6000 tanks were engaged in, for 10 points, this largest armor battle of World War II.

Answer: Battle of Kursk

BONI

1. Answer the following about enzyme activity for 10 points each.

[10] Similar to maximum velocity, it indicates the number of reactions an individual enzyme is capable of catalyzing in one second.

Answer: turnover number

[10] Equal to half the turnover number, this constant indicates the affinity of the enzyme for its substrate.

Answer: Michaelis constant (prompt on "K_M")

[10] Some enzymes may be activated or inhibited by the binding of molecules at this site, changing the enzyme's conformation.

Answer: allosteric site

2. Answer the following about a particular Shakespearean soliloquy for 10 points each.

[10] What title character utters the famous lines "Once more unto the breach, dear friends / Once more, or close the wall up with our English dead."

Answer: King Henry V

[10] Henry's speech precedes the final assault on this French town.

Answer: Harfleur

[10] In what act and scene does Henry give this soliloquy?

Answer: Act III, Scene 1

3. Identify the following periods of Japanese history for 10 points each.

[10] Coinciding with the reign of Emperor Mutsuhito, Japan transitioned from a feudal to industrial state.

Answer: Meiji restoration or period

[10] Named for the capital city, this was the first period of a united Japan under an emperor.

Answer: Nara period.

[10] Lasting from 1185 to 1333, this was the first shogunate period.

Answer: Kamakura period

4. Answer the following about the Pauline epistles for the stated number of points.

[10] Addressed to a set of churches somewhere in Asia Minor, this epistle argues strenuously that non-Jewish converts are not required to follow Jewish practices.

Answer: Letter to the Galatians

[5] The shortest Pauline epistle, he encourages the title recipient to be lenient in treating Onesimus a slave converted to Christianity.

Answer: Letter to Philemon

[15] Paul's authorship of the three so-called Pastoral Letters has been questioned by recent scholars. Two were written to one of Paul's apostolic associate, while the third was written to another. Name them – 5 for one, 15 for both.

Answer: Timothy and Titus

5. Identify the following psychologists from works on a 15-5 basis.

[15] "The Psychology of the Unconscious;" "Psychology and Alchemy"

[5] "Psychological Types"

Answer: Carl Gustav Jung

[15] "Technology of Teaching;" "Beyond Freedom and Dignity"

[5] "Science and Human Behavior"

Answer: Burrhus Frederic Skinner

6. Answer the following about Huckelberry Finn for the stated number of points.

[5] Name Huck's slave companion down the Mississippi.

Answer: Jim

[15] Huck is taken in by a family that has a long-standing feud with another. Name them for 5 points each, or 15 for both.

Answer: Grangerford and Shepherdson

[10] This pair of charlatans betray Jim and Huck, selling Jim to Silas Phelps.

Answer: The King and the Duke

7. Identify the painters of the following works for 10 points each.

[10] Guernica

Answer: Pablo Picasso

[10] The Law and the Golden Calf

Answer: Tintoretto or Jacopo Robusti

[10] The Vision After the Sermon

Answer: Paul Gauguin

8. Answer the following about Pangaea for 10 points each.

[10] The giant ocean surrounding Pangaea is known as this.

Answer: Panthalassa

[10] Pangaea began to break up during this geologic period in the Mesozoic Age.

Answer: Triassic

[10] The southern continents comprised this subland of Pangaea.

Answer: Gondwanaland

9. Identify the following American laws of the 1880s for 10 points each.

[10] This law mandated the creation of a Civil Service Commission and established merit-based hiring.

Answer: Pendleton Act

[10] This 1882 law restricted immigration from a certain country for 10 years.

Answer: Chinese Exclusion Act

[10] Passed in 1887, its main effect was to prevent predatory or discriminatory pricing in the railroads.

Answer: Interstate Commerce Act

10. Given two sinners and their punishment from Dante's Inferno, name the type of sin being punished for 10 points each. [Moderator: accept equivalents]

[10] Paolo and Francesca; they are tossed about by hot, searing winds

Answer: lust or adultery

[10] Pope Anastasius and Farianata; they are placed in tombs of fire

Answer: heresy

[10] Friar Albergio and Count Ugolino; they are encased to the neck in ice

Answer: compound fraud or betrayal

11. 30-20-10, name the event.

[30] Edwin Denby, Secretary of the Navy, was cleared of any wrongdoing.

[20] Both Edward Doheny and Harry Sinclair were acquitted of bribery and conspiracy, but Sinclair spent time in prison for contempt of the Senate.

[10] Secretary of the Interior Albert Fall was convicted of accepting bribes to lease the namesake oil reserves.

Answer: Teapot Dome Scandal (prompt on "Oil Reserves" or "Elk Hill")

12. Identify the following rules of organic chemistry for 15 points each.

[15] Used to determine if a ring structure displays aromaticity, it stipulates that the number of electrons in the delocalized cloud must be of the form $4n+2$.

Answer: Hueckel's Rule

[15] In the reaction of an asymmetrical alkene with another asymmetrical molecule, the dominant product will be the one with the most stable carbocation intermediate. Hydrogen will add to the end of the bond with more hydrogens.

Answer: Markovnikov's Rule

13. Answer the following about an upcoming election for the stated number of points.

[5] Along with Virginia, this is the only state to hold gubernatorial elections this year.

Answer: New Jersey

[10] He defeated Bob Franks to become the Republican candidate.

Answer: Bret Schundler

[5] Schundler gained fame for his cleanup of this city, which he previously served as mayor.

Answer: Jersey City

[10] Schundler's opponent is this Democrat who narrowly lost to Christine Whitman in 1997.

Answer: Jim McGreevey

14. Answer the following about a modern theatre movement for 10 points each.

[10] This movement, named for a 1932 treatise, felt that theatergoers should be inundated by the experience through the use of actions over words.

Answer: Theatre of Cruelty

[10] Name the creator of the Theatre of Cruelty.

Answer: Antonin Artaud

[10] This playwright's "Marat/Sade" may be considered a major work in the Theatre of Cruelty.

Answer: Peter Weiss

15. Identify the following composers from works on a 15-5 basis.

[15] "Gurrelieder" and "Pierrot Lunaire"

[5] "Verklärte Nacht" [FER-klare-tuh Nawkt] and "Moses and Aaron"

Answer: Arnold Schoenberg

[15] "L'Enfant prodigue" and "Images"

[5] "Pelleas et Melisande" and "La Mer"

Answer: Claude Debussy

16. Answer the following questions about a certain subatomic particle for the stated number of points.

[5] Recent studies suggest that this lepton does indeed have some rest mass, possibly accounting for some "dark matter."

Answer: neutrino

[10] Wolfgang Pauli postulated its existence in order to account for the missing energy in what process?

Answer: beta decay

[15] Name the three types of neutrinos for 5 points each. Each one is associated with a particular particle.

Answer: electron, muon (or mu), tau

17. Name these important parks in British history for 15 points each.

[15] Formerly a hunting reserve, it was home of the Crystal Palace and the statue of Achilles, celebrating the Duke of Wellington.

Answer: Hyde Park

[15] Located in Buckinghamshire, scientists at this station cracked the Enigma cypher and created Colossus.

Answer: Bletchley Park

18. Answer the following questions about ballet mishaps on film, for 10 points each.

[10] In this 1981 "comedy," Chevy Chase uses telekinesis to overinflate the balloon in a male dancer's tights, causing it to become so large it bursts.

Answer: Modern Problems

[10] In this 1992 film, John Turturro, Mel Smith, and Bob Nelson inherit a ballet company, where they have fun with wires dunking basketballs while the ballet goes on around them.

Answer: Brain Donors

[10] In this 1977 Dario Argento classic, students at a ballet school get knocked off by some ugly beast.

Answer: Suspiria

19. Answer the following about the philosophy of John Locke for 10 points each.

[10] Locke was a strong advocate of this view that men come into the world without preconceived, innate ideas.

Answer: tabula rasa

[10] Locke's advocacy of the tabula rasa belief was expounded in this 1690 work in which he states that the young mind is a "white paper, devoid of all characters."

Answer: An Essay Concerning Human Understanding

[10] Locke's works formed the main basis for this 18th century school of thought.

Answer: empiricism

20. For 10 points each, answer the following about hand-held computing.

[10] After the first model was designed by Jeff Hawkins in 1994, this handheld computing platform is currently the market leader.

Answer: PalmPilot OS

[10] Microsoft's direct competition to Palm is this system, used in Pocket PC devices.

Answer: Windows CE

[10] This British company announced that it would cease production of its namesake handheld system in 2001. Many argued it was superior to Palm and CE.

Answer: Psion