

UC Berkeley's WIT 7: Packet by Berkeley Koppa

Tossups

1. According to the *Rock Edicts* written by this monarch, he conquered what is now Orissa in the eighth year of his 27 year reign, but upon seeing the destruction that resulted from the conquest he renounced armed conflict. As a result, he spent much of the rest of his reign building hospitals, planting trees, and touring his empire to preach the notion of *dharma*. FTP, name this last major Mauryan emperor whose tenure led to the expansion of Buddhism throughout India.

Answer: Asoka (Ashoka)

2. This play contains a subplot in which the English tourist Peregrine, having read many books about Italy before travelling there, asserts the superiority of his way of learning about the country over that of fellow tourists Lady and Sir Politic Would-be. In the main plot, Corbaccio disinherits his son and Corvino offers his wife in order to gain the favor of the title character, who feigns a terminal illness with the help of his servant Mosca. FTP, name this 1606 comedy about a fox by Ben Jonson.

Answer: Volpone, or the Fox

3. This metabolic process takes as input the molecules aspartic acid and carbamoyl phosphate and in its third step it releases fumaric acid due to the action of the enzyme arginosuccinate lyase. If its fifth and final step malfunctions, seizures may result, while failure in any of the other four steps results in a buildup of ammonia in the blood. FTP, name this cycle in the last step of which arginine splits into ornithine and the cycle's namesake molecule, which is subsequently excreted in urine.

Answer: Urea cycle

4. The assault which led to this battle was motivated partly by the success of a similar campaign at Izyum a year earlier. On July 5, the 9th Army attacked at Orel while the Fourth Panzer Army attacked at Belgorod, but neither penetrated more than 30 miles into the 100 mile bulge, which was defended by 1.3 million troops, and within a week the Russians began their counterattack. FTP, name this unsuccessful 1943 attempt by the Germans to regain the offensive on the Eastern Front, which was the largest tank battle in history.

Answer: Battle of Kursk

5. In the late 18th century, shows featuring these were common throughout Europe, and in most countries there was one which was especially popular, named Christovita in Spain, Kasperle in Germany, and Guignol in France. Types used in Asia include the *tholu bommalata* in India and the *wayang kulit* of Indonesia, and in Japan they serve as characters in *bunraku* theater. FTP, identify these objects used to represent characters such as Petrushka, Judy, and Punch.

Answer: Puppets

6. This philosopher's earliest works, including *On the Possibility and form of Philosophy in General*, which he finished at 19, were heavily influenced by Johann Fichte in their treatment of the Absolute ego, but around 1797 he broke with Fichte over the issue of Nature's relation to humanity. He would publish little after the 1809 death of his wife, the former Caroline Schlegel, but had already gained attention with his comparison of artistic creation and world creation in *Of the World-Soul*. FTP, name this German romantic author of *System of Transcendental Idealism*.

Answer: Friedrich Wilhelm Joseph von Schelling

7. This mineral, which is found in large deposits in contact metamorphic rocks and may weather into such minerals as goethite and limonite, was used in wheel-lock guns prior to the invention of the flintlock. Used in the eye sockets of Aztec skull masks, prehistoric civilizations seem to have exploited its ability to produce fire, from which it derives its name. FTP, identify this iron sulfide mineral with a deceptive color.

Answer: Pyrite (prompt on "fool's gold")

8. The liquor here flows from the udder of a goat, and the food comes from a boar which is slaughtered each day and made whole again in the evening. The cock Gullinkambi awakens its inhabitants, the

Einherjar, every day, after which the Einherjar fight each other until they cut each other to pieces, only to have their wounds miraculously healed as they feast at Odin's side. FTP, name this 540-doored hall of fallen warriors.

Answer: Valhalla

9. In its upper course, where it is called Joliba from the Malinke for "great river," this river flows north, but after several turns it flows east-southeast in its lower stretch, which starts near Jebba. It is two miles wide just after it joins its greatest tributary, the Benue, at Lokoja, and later seaparates into Africa's largest delta at Aboh before emptying into the Gulf of Guinea. FTP, name this third largest river in Africa, which flows through Gao, Timbuktu, Bamako, and Niamey.

Answer: Niger

10. This man commanded the Confederate reserve forces at the Battle of Shiloh and, as major general, took part in campaigns at the Wilderness and Shenandoah Valley before becoming Confederate Secretary of War. In March 1861, he took over John Crittenden's U.S. Senate seat, having served as Vice President for the previous four years. FTP, name this man who demanded federal intervention on behalf of slavery as the 1860 presidential candidate for the Southern Democrats.

Answer: John Cabell Breckinridge

11. This collection includes "Four Monarchies," an attempt at a historical epic, part of which was destroyed in a house fire. Most of the poems in the collection are unoriginal, but the last two, "Of the Vanity of All the Worldly Creatures," and "David's Lamentation for Saul and Jonathan," are fairly mature, while "To Her Dear and Loving Husband" is still frequently reproduced. FTP, name this collection published in 1650 which was the first volume of poems published in North America, written by Anne Bradstreet.

Answer: The Tenth Muse Lately Sprung up in America

12. He gives his name to a summation formula which relates the values of a function at certain points to those of its Fourier transform, and one can evaluate a harmonic function at a given point using the integral formula which bears his name. In physics, his eponymous equation, equivalent to Maxwell's first equation, states that the Laplacian of the electric potential is proportional to the charge density. FTP, name this Frenchman best known for his development of a statistical distribution used to model the number of arrivals at a facility in a given period of time.

Answer: Simeon-Denis Poisson

13. After being heavily influenced by a three-year stay in Italy, this composer studied in Berlin under Siegfried Dehn, beginning his first symphony in 1834. A trip to Spain inspired his *Summer Night in Madrid*, which he composed three years after hearing his first two operas performed by Hector Berlioz in Paris, marking the first western European performance of Russian music. FTP, name this composer of *Kamarinskaya*, *Life for the Tsar*, and *Ruslan and Lyudmila*, regarded as the founder of Russian nationalist music.

Answer: Mikhail Ivanovich Glinka

14. This equation accounts for a force which is inversely proportional to the seventh power of distance, and introduces two constants, a and b , both of which are exceptionally high for such molecules as carbon tetrachloride. First introduced in 1881, one of its terms reflects the fact that the molecules in a gas have nonzero size. FTP, identify this equation which serves as a simple correction to the ideal gas law and was one of the most important contributions of its Dutch namesake.

Answer: van der Waals equation

15. The narrator of this novel falls in love with a widow who is killed near the end of the work by a jealous mob. The title character works in the narrator's coal mine and often tells him that he thinks too much, ultimately bringing the narrator out of a life of contemplation and into the Dionysian lifestyle of the novel's hero. FTP, name this 1946 novel which established the international reputation of Nikos Kazantzakis.

Answer: Zorba the Greek (*Vlós kai politía tú Aléksis Zorbá*)

16. François de Lorraine acquired this city for France in 1558, but 38 years later it passed to Spain, only to be returned to France by the Treaty of Vervins. A 1360 treaty concluded in this city gave Edward III control of Aquitaine, thirteen years after the city itself fell to England as a result of a year-long siege, during which a group of six burghers immortalized by Rodin surrendered in order to save it. FTP, name this French city which was used by the Germans as a base for launching flying bombs against England because of its proximity to Dover.

Answer: Calais

17. This 1934 book makes frequent use of the principles of gestalt psychology and addresses the morphological method of Oswald Spengler, disputing some of Spengler's conclusions which resulted from a biological metaphor for culture. It draws on the work of Reo Fortune among the Dobu of New Guinea, on the author's own work which resulted in her book *Zuni Mythology*, and on the work of the author's mentor, Franz Boas, among the Kwakiutl. FTP, name this comparative work by Ruth Benedict.

Answer: Patterns of Culture

18. A trip to North Africa with the Count de Mornay led this painter to use a freer and more colorful style in the latter stages of his career, seen in such works as "Jewish Wedding," "Fanatics of Tangier," and "Women of Algiers in Their Apartment." Despite the nonconformist nature of his painting, he obtained many government commissions, a fact that some have cited as evidence that he was Talleyrand's illegitimate son. FTP, name this romantic painter of "Dante and Vergil in Hell," "The Massacre at Chios," and "Liberty Leading the People."

Answer: (Ferdinand-Victor) Eugène Delacroix

19. Formally, this theorem states that any one-parameter group of diffeomorphisms admitted by a Lagrangian system has a first integral associated with it. As special cases, if a system is invariant with respect to time, translations, or rotations, then energy, linear momentum, or angular momentum is, respectively, conserved. FTP, name this theorem of mechanics which associates symmetries with conservation laws, proven in 1918 by the 20th century's most famous female mathematician.

Answer: Noether's Theorem

20. Okomfo Anokye, a priest in this kingdom, supposedly brought down a Golden Stool from heaven during the reign of its first king, Osei Tutu, who won a major war against the neighboring state of Denkyera. Its later kings, ruling out of the capital at Kumasi, included Opoku Ware and Osei Bonsu, who defeated a British force in 1824. FTP, name this kingdom which traded slaves for firearms in the 18th century but was ultimately declared a British crown colony, located in what is now southern Ghana.

Answer: Ashanti (Asante)

21. According to tradition, this man was martyred by the king of Mylapore in Madras, and he is recognized as the founder of the Church of the Syrian Malabar Christians. In the Gospel of John, he insisted on accompanying Jesus to Judaea, so "that we may die with him," and after the resurrection he became the first person to explicitly acknowledge Christ's divinity. FTP, name this apostle whose name means "twin," and whose demand for physical proof of the Resurrection gave him his reputation as "doubting."

Answer: St. Thomas

Bonus Questions

1. Answer the following about regions and peoples in early Roman history, FTP each:

a) Name the area in west-central Italy, initially confined to the region around the Alban Hills, which was occupied by those darn Etruscans until 475 B.C.E. and included such cities as Rome and Tusculum.

Answer: Latium

b) Name the group of Italians which settled in southern Latium in the fifth century B.C.E., allying itself with the Aequi in order to stem Roman expansion. It fought against Rome intermittently until 304 B.C.E..

Answer: Volsci

c) Name the Oscan-speaking group from central southern Italy which fought three wars against the Romans between 343 and 290 B.C.E..

Answer: Samnites

2. Identify the following title characters of George Eliot novels, FTP each:

a) This reclusive weaver has his gold stolen and finds an unclaimed baby girl whose companionship brings him back into a more normal life.

Answer: Silas Marnier, or the Weaver of Raveloe

b) This character, who was raised Christian but learns that he is a Jew, earns the admiration of Gwendolyn Harleth after her husband drowns, but marries Mirah Cohen and moves to Palestine with her.

Answer: Daniel Deronda

c) This woman, a personification of duty, is married to Tito, who condemns Savonarola to death.

Answer: Romola (Melema)

3. Name the composers of the following works, FTP each:

a) *The Love for Three Oranges*

Answer: Sergei Sergeyevich Prokofiev

b) *Three Pieces in the Shape of a Pear*

Answer: Erik-Albert-Leslie Satie

c) *Pine Apple Rag*

Answer: Scott Joplin

4. Identify the following scientists involved in the study of Brownian motion, FTP each:

a) This physicist applied statistical mechanics to develop his quantitative theory of Brownian motion in a 1905 paper.

Answer: Albert Einstein

b) This Frenchman's experimental confirmations of Einstein's predictions between 1905 and 1911 earned him a Nobel Prize in the 1920s.

Answer: Jean-Baptiste Perrin

c) This MIT mathematician's studies of stochastic processes in the 1920s led to the first mathematically rigorous treatment of Brownian motion. He would later establish the science of cybernetics.

Answer: Norbert Wiener

5. Identify the following leaders of Albania, FTP each:

a) Albania's most famous pre-World War II leader, who was president from 1925-1928 and king from 1928-1939.

Answer: Zog I or Ahmed Bey Zogu

b) The American educated bishop who was a rival to Zog early in the history of independent Albania and served as Prime Minister in 1924 before being overthrown by Zog.

Answer: Fan Noli

c) The communist prime minister of Albania starting in 1944 who had effective control over the Albanian government until his 1985 death, overseeing the country's massive industrialization and isolating it from other world powers.

Answer: Enver Hoxha

6. Identify the following works of Michel de Foucault, FTP each:

a) Foucault's 1961 work about society's use of the concept of insanity in the 17th century.

Answer: Madness and Civilization: A History of Insanity in the Age of Reason (Folie et Dérision: Histoire de la Folie à l'âge Classique)

b) Foucault's treatment of the changes in attitudes toward medical knowledge and medical care that occurred in the 18th century.

Answer: The Birth of the Clinic: An Archaeology of Medical Perception (Une Archéologie du regard médical)

c) Foucault's 1966 work outlining his theory of periods of knowledge.

Answer: The Order of Things (Les Mots et les Choses)

7. Identify the following plays by August Strindberg, FTP each:

a) In this play, in which interludes such as a peasant dance and a pantomime replace standard scenes, an aristocratic woman seduces the footman Jean but commits suicide after the romance turns sour.

Answer: Miss Julie or Countess Julie or Lady Julie (Froken Julie)

b) The 1901 play about a married couple in which the tyrannical husband, Edgar, is terminally ill and the wife attempts to torture him in retaliation.

Answer: The Dance of Death (Dödsdansen)

c) The 1887 play in which a Captain is tormented by his wife Laura, who convinces him that he is insane, makes him worry that her daughter Bertha is not his child, and ultimately drives him to madness and death.

Answer: The Father

8. Identify the following divisions of the plant kingdom, FTP each:

a) The division of green, seedless plants including hornworts, liverworts, and most mosses.

Answer: Bryophyta

b) The division of gymnosperms which is of interest to paleobotanists because its only extant species, sometimes known as the maidenhair tree, may be the world's oldest living seed plant.

Answer: Ginkgophyta

c) The division of spore-bearing vascular plants consisting of club mosses, spike mosses, and quillworts.

Answer: Lycophyta

9. Answer the following relating to the first Sino-Japanese war:

a) FTP each, name the treaty which ended it and the year it ended.

Answers: Treaty of Shimonoseki; 1895

b) FTP each, name the Chinese dynasty and the Japanese emperor in power at the time of the war.

Answer: Ch'ing (or Manchu); Meiji Tanno (or Mutsuhito)

c) FTP, name the Manchurian peninsula which was initially ceded to Japan by the Treaty of Shimonoseki but was returned to China due to the intercession of three European powers.

Answer: Liaotung peninsula

10. Answer the following about a genre of literature, FTP each:

a) This type of novel, first appearing in Spain in the 16th century, is generally episodic and deals with the adventures of an antiheroic rogue in the service of a series of masters.

Answer: Picaresque novel

b) This anonymously published 1554 work, whose title character ends his career as the town crier of Toledo, is considered the first and greatest of the Spanish picaresque novels.

Answer: La Vida de Lazarillo de Tormes (The Life of Lazarillo de Tormes)

c) One of the first picaresque novels written in English is this 1722 work about a woman who reforms herself after 12 years as a prostitute and five marriages, including one to her own brother.

Answer: Moll Flanders

11. Answer the following about a class of organic compounds, FTP each:

a) Give the term for an organic compound with two carbon-carbon double bonds.

Answer: Diene (DYE-ene)

b) Identify the diene with chemical formula C_4H_6 which is often used as a base molecule for synthetic rubber.

Answer: 1,3-Butadiene

c) Name either of the two scientists who in 1928 discovered a reaction which now bears their name in which a diene reacts with a so-called "dienophile" to produce a six-membered ring compound.

Answer: Kurt Alder or Otto Diels

12. Identify the following people and entities relating to structural linguistics, FTP each:

a) The Swiss scholar generally regarded as the founder of structural linguistics, who formalized the synchronic and diachronic approaches to linguistic study and who introduced the distinction between what he called *langue* and *parole*.

Answer: Ferdinand de Saussure

b) The linguistic school of thought, named for a city and active in the 1920s and 1930s, whose prominent members include Nikolay Trubetskoy and which is noted for its development of the distinctive-feature analysis of sounds.

Answer: Prague School

c) The principal founder of the Prague school, who later moved to the United States during World War II, where he co-authored the pioneering work *Preliminaries to Speech Analysis* with Gunnar, Fant, and Halle.

Answer: Roman Jakobson

13. Answer the following about the Swiss architect whose given name was Charles-Édouard Jeanneret, FTP each:

a) Give the name by which he is better known.

Answer: Le Corbusier

b) Name Le Corbusier's most famous religious building, a chapel in the village of Ronchamp finished in 1956.

Answer: Notre Dame du Haut

c) Identify the city in the Punjab whose construction was overseen by Le Corbusier starting in 1951.

Answer: Chandigarh

14. Identify the following Norwegian mathematicians, FTP each:

a) This Norwegian mathematician, probably the most famous, proved that the quintic cannot be solved algebraically in 1824, but died of tuberculosis at the age of 26.

Answer: Niels Henrik Abel

b) In 1872, this man proved a famous three-part result about subgroups whose order is the power of a prime. He remained a high school teacher until 1898, when his one-time student Sophus Lie had a professorship created for him.

Answer: Peter Ludwig Mejdell Sylow (SEE-low)

c) This logician developed a nonstandard model of arithmetic, proved, along with Löwenheim, that if a theory has a model then it has a countable model, and developed the theory of recursive functions as a means of avoiding paradoxes of the infinite.

Answer: Albert Thoralf Skølem

15. Identify the following Supreme Court chief justices from clues about their pre-Supreme Court careers, FTP each:

a) Along with Roger Sherman, this man authored the Connecticut Compromise at the Constitutional Convention, which established the rules for representation in Congress. As the acknowledged leader of the Federalists in the Senate, he was the chief author of the Judiciary Act of 1789.

Answer: Oliver Ellsworth

b) This brother-in-law of Francis Scott Key served as Attorney General under Jackson, and partly as a result of his fight against the Second Bank of the United States the Senate rejected his appointment as Secretary of the Treasury.

Answer: Roger Brooke Taney

c) In a brief tenure as attorney general under Coolidge, he reorganized the FBI, helping it recover from the Teapot Dome scandal.

Answer: Harlan Fiske Stone

16. Identify the following Aztec deities, for the stated number of points:

a) FFP, the feathered serpent who ruled over the last of the five Aztec world cycles.

- Answer: Quetzalcoatl
- b) FFP, the god of rain, agriculture, fire, and the south, who presided over the third world age and for whom children were drowned each year as a sacrifice.
- Answer: Tlaloc
- c) FTP, the god of war and the sun who was the chief deity of Tenochtitlan and was represented as a hummingbird.
- Answer: Huitzilopochtli
- d) FTP, the goddess of earth and fire who was impregnated by a ball of feathers and whose sons included Quetzalcoatl and Huitzilopochtli.
- Answer: Coatlicue

17. Identify the following overseas possessions of France, FTP each:

- a) The territory 900 miles east of Australia and due south of Vanuatu with capital at Nouméa.
- Answer: New Caledonia
- b) The windward island in the West Indies which has been a department since 1946 and on which Empress Josephine and prominent anti-colonial writer Frantz Fanon were born.
- Answer: Martinique
- c) The island northwest of Madagascar which was part of the Comoros until it voted to become a French dependency in 1976. It shares its name with the last name of a mediocre tennis player from the 1980s.
- Answer: Mayotte

18. Answer the following about X chromosomes, FTP each:

- a) In each somatic cell of a normal female, one of the chromosomes is deactivated and is easily visible in the nucleus under a microscope. Give the term for this deactivated chromosome.
- Answer: Barr body
- b) This disorder, present in women with 3 or 4 X chromosomes, results in the patient being unusually tall and mildly mentally retarded.
- Answer: Metafemale or superfemale or triplo-X syndrome
- c) This sex-linked disorder, associated with a break at the tip of the long arm of the X chromosome, is the second most common predominantly genetic cause of mental retardation.
- Answer: Fragile X syndrome

19. Identify the following leaders of Pakistan, FTP each:

- a) The leader of the Pakistan People's Party who became Prime Minister after Zia's death, making her the first female leader of a Muslim nation.
- Answer: Benazir Bhutto
- b) Pakistan's current Prime Minister, recently deposed by his military chief, who leads the Pakistan Muslim League and has alternated with Bhutto as Prime Minister since 1990.
- Answer: (Mohammed) Nawaz Sharif
- c) The military leader led the coup against Sharif on August 12.
- Answer: Pervez Musharraf

20. Identify the following novels dealing with immigrant experiences in the U.S., F15P each, or five if you need the author.

- a) 15: This novel is the first volume of a trilogy about a group of farmers in the Dakota territory, one of whom disappears in a blizzard. It is followed by *Peder Victorious* and *Their Father's God*.
- 5: Ole (OO-lay) Edvart Rölvaag
- Answer: Giants in the Earth: A Saga of the Prairie
- b) 15: The protagonist of this novel, set in Stockton, California, views the white authority figures that surround her as ghosts who live under different rules than she does.
- 5: Maxine Hong Kingston
- Answer: The Woman Warrior: Memoirs of a Girlhood Among Ghosts