

PMV - Round
January 1998

BYU Perpetual Motion V Pack (Jan. 30, 31 1998)
by Fred Carpenter and David Levinson, University of California at Berkeley

Tossups

1. Like Fossey and Goodall she was mentored by Louis Leakey into primate research. She has maintained the longest, continuous study of a mammal in the wild with her specialization in orangutans, instrumental in the rescue and preservation of the orangutan in Indonesia. For 10 points name the author of 'Reflections of Eden: My Years with the Orangutans of Borneo'.

Answer: Birute M.F. Galdikas

2. His films have included Ghost Fever and Solar Crisis. In September of 1997 the University of Pennsylvania held a celebrity awards ceremony for this director who received a karate trophy. For 10 points name this pseudonym used by film makers to replace their names on film projects they are too embarrassed to have connections with.

Answer: Allan Smithee (note: prompt for full name)

3. His poem 'Jerusalem' was put to music in 1820 by Charles Parry while other admirers such as Samuel Palmer, called themselves the Ancients. This English poet and artist became one of the great figures in English Romanticism with such works as America and Milton. For 10 points name this author of Songs of Experience.

Answer: William Blake

4. This author was influenced by Twain's 'Adventures of Huckleberry Finn' and the 'Wonderful Adventures of Nils' by the Swedish writer Selma Lagerlof. Winner of the Akutagawa prize in 1958, this Japanese writer considers himself on the edge of society he is writing about. For 10 points name this winner of the Nobel in Literature 1994.

Answer: Kenzaburo Oe

5. Confined to Dublin, 2000 Irish volunteers and a 200 citizen army seized the General Post Office and called to Germany for help. Patrick Pearse and James Connolly proclaimed a republic, though it was put down with great loss of life by the British a week later. For 10 points, what is this rebellion led by Sinn Fein in April 1916?

Answer: Easter Rebellion (Rising)

6. Highway 61 and U.S. 49, an album by Eric Clapton, and a place where suicides are buried to prevent them from coming back as the undead. For 10 points name this place where deals with the Devil are made and two thoroughfares intersect.

Answer: Crossroads

7. Born in Algiers in 1930 to a Sephardic Jewish family, he immigrated to France and became a contributor to Tel Quel, a philosophical journal. A key figure in the deconstructionist movement, he has been influenced by Hegel, Nietzsche, Freud, and Heidegger. For 10 points, whose works include "Of Grammatology", "Writing and Difference", "Dissemination", and "Margins of Philosophy"?

Answer: Jacques Derrida

8. He was created by associates and collaborators of famed Japanese director Akira Kurosawa. Said to symbolize the terrors of the atomic bomb, this character's first feature film was the most expensive film made in 1954, costing \$65 million in today's dollars. For 10 points name this Toho studio phenom whose several rampages through Tokyo have set the standard for radioactive lizards.

Answer: Godzilla

10. An effective commander at Antietam, despite being wounded, in January 1863, he replaced Burnside as commander of the Army of the Potomac. However, he was defeated by Lee at Chancellorsville, where he was again wounded. After defending Baltimore and Washington, he grew angry at General Halleck and asked to be relieved of command. For 10 points, had a rather regrettable name to begin with and during the Peninsular Campaign earned the nickname "Fighting Joe"?

Answer: General Joseph Hooker

11. This ancient monument was moved in sections for historic preservation between 1966-1967. Located in Southern Egypt, this site held two temples built by Ramases II in honor of himself and his wife, Nefertari. For 10 points name the temple site that had to be moved for the construction of the Aswan Dam.

Answer: Abu Simbel

12. Caravaggio, Guido Reni, Van Dyck, Rubens, Velasquez, and Rembrandt in painting, Puget, Coysevox and Bernini in sculpture, Cortona, Longhena and Wren in architecture J.S. Bach, Handel and Vivaldi in music. For 10 points name this art period whose name was coined by Swiss historian Jacob Burckhardt as a perjorative meaning bizarre and irregular.

Answer: Baroque (prompt on an early buzz of Rococo)

13. An opera within an opera, this piece by Strauss and von Hofmannsthal combines a great opera with a commedia dell'arte. Characters such as Zerbinetta, the Dancing Master and conductor, share the stage with Harlequin and Scaramouche. For 10 points name this opera seemingly about Theseus' rejected girlfriend who is rescued by the god, Bacchus.

Answer: Ariadne of Naxos

14. With his brother Jacques, he discovered piezo-electricity, which they used to build an electrometer and measure small currents. He then studied the effect of temperature on magnetism, at a certain temperature, ferro-magnetic properties are lost, a point which is named for him. Perhaps one of the first people to suffer radiation sickness, he died by falling under a cab and being kicked by a horse. For 10 points name this scientist, who with his wife discovered radium and polonium, and was co-awarded the 1903 Nobel Prize in Physics?

Answer: Pierre Curie (1859-1906)

15. Known as Tammuz in Babylonian and Phoenician mythology he is also identified with Osiris in the Egyptian myths. This vegetative god is better known to us in his ancient Greek incarnation as a beautiful youth killed by a boar. For 10 points name this lover of the goddess Aphrodite and the source of the anemone.

Answer: Adonis

16. The key realization was that holes, quantum mechanical entities that were the absence of electrons, carried current through silicon. The junction version sandwiched n-type electrically doped semiconductor material around p-type positively charged holes. The point-contact variety was developed by Bardeen and Brittain. For 10 points name this device, whose junction version was developed by Shockley.

Answer: The Transistor

17. Including Charles Coughlin, Huey Long, Joseph McCarthy, Gerald K. Smith, Benito Mussolini, Adolf Hitler, Juan Peron, and Joseph Goebbels, they use oratory to gain power. For 10 points what is this nine letter term which describes individuals who use crises to promote simplistic solutions to complex problems?

Answer: Demagogue

18. The only President to have Native American blood in his heritage, he attended Amherst and in 1923 became President with his oath administered by his father. For 10 points name this President born on the 4th of July 1872 in Plymouth, Vermont, successor to the ignominious Warren G. Harding.

Answer: Calvin Coolidge

19. This trading empire of sub-Saharan Africa began in the 1st century AD. Located in the northern Ethiopian highlands, its power rose such that by the 4th century it conquered Meroe, a rival empire, and burned that city to the ground. For 10 points, what is this empire which in the 4th century became Christian, thus legitimizing the Coptic Church?

Answer: Axum or the Kush Empire

20. Some 27 kilometers in circumference, it is located just outside Geneva Switzerland. It housed an electron-positron collider, and a low energy antiproton ring (LEAR), and now the Large Hadron Collider (LHC) in the search for the Higgs Boson. For 10 points What is this European research center?

Answer: CERN - European Laboratory for Particle Physics

21. Sarcastically dubbed the National Flower by critic Lewis Mumford, it was patented by Arthur Hill in 1916. The first was constructed in 1928 in Woodbridge, New Jersey, and within a decade it became a standard feature of America's Highways. For 10 points, name this interstate highway interchange design, which is being replaced by trumpets and diamonds.

Answer: The Cloverleaf

22. Born Melvin Hesselberg in 1901, he served as a leading man in many Hollywood films. He later switched to character roles, both on film, where he won two supporting actor Oscars, and in life, as the husband to a famous Representative who lost in a 1950 race against Richard Nixon for the California Senate seat. For 10 points Name this actor who co-starred in "Being There"?

Answer: Melvyn Douglas

23. It was formed in 1916 in Zurich by a group of disparate artists and poets, including Hugo Ball, Richard Huelsenbeck, Marcel Janco, Trista Tzara, and Jean Arp. Their name, a cacaphonic nonsense term literally meaning "wooden horse", was designed to take aim at artistic pretensions. For 10 points What is this nihilistic group which influenced Surrealism?

Answer: Dada

24. A compound of fatty acids and sugar, it is neither absorbed nor digested by the body, and therefore adds no calories to food. This synthetic fat substitute was created by Proctor and Gamble, and was recently approved as an additive to snack foods. For 10 points what is this new food product soon (or never) to be found in potato chips?

Answer: Olestra or Olean

25. When Frederick of Prussia signed this in 1756, the alliances established by the War of Austrian Succession reversed, Austria and France became allied as did Britain and Prussia. For 10 points, what document protected the British Royal Family's domain of Hannover?

Answer: Convention of Westminster

PMJ

Berkeley

Bonuses

1. At times commercials stay in the memory longer than the company or product it is pushing. Given the description name the company or product that is being pushed.

A. An urban setting with a homage to Hitchcock's vertigo in this commercial starring a chihuahua who goes up a fire escape not to the eagerly bow clad female chihuahua but to another resident of the building. Yo Quiero...

Answer: Taco Bell

B. From the same people who brought you the Ken and Barbie commercial playing Van Halen, this commercial has another great tune, Vince Guaraldi's 'Linus and Lucy', and starred a dog, a sleeping owner, and a recliner through busy streets.

Answer: Nissan

C. This commercial has been called Dilbert meets Tarantino. An out of control fuel truck is barreling out of control, a screaming boss and a harried office schlep star in this commercial pushing this company's pentium processor.

Answer: AMD or Advanced Micro Devices

2. Time for an Asian lit bonus that is not about the Tale of Genji. For 15 pts. name the work given the description.

A. Attributed to Confucius, this work is an anthology of 305 poems which range from simple courtship to ritual hymns and includes dynastic legends. Name this work known in the Chinese as Shi Qing.

Answer: Book of Songs

B. This allegorical tale was written by Hung Lou Meng in the 18th century. Consisting of 120 chapters it is the tale of the Jia family and their decline. Considered by many to be one of the greatest realistic novels in Chinese literature.

Answer: Dream of the Red Chamber or The Story of the Stone

3. 30-20-10 Name this conductor.

A. (30) Born in Budapest on October 21, 1912, his teachers included Dohanyi and Bartok at the Liszt Academy of Music.

B. (20) In 1936 and 1937 he was an assistant to Toscanini where he was encouraged to become a conductor though he continued to play piano and won the 1942 Geneva Piano competition.

C. (10) He conducted Moses and Aron and the Ring Cycle for their first performances at the Convent Garden. In 1969 he became the musical director of the Chicago Symphony Orchestra and died September 5, 1997.

Answer: Sir Goerg Solti

4. Everyone seems to know Dante's Inferno cold, but let us ask a question on Dante's Paradiso. Dante is accompanied through Paradise by Beatrice and discovers that Paradise is divided into seven spheres with each representing one of the seven virtues. You get 5 pts. each for naming 6 of the seven spheres that make up Paradise.

Answer: Sun, Moon, Mercury, Venus, Mars, Jupiter, and Saturn

5. BONUS Get Pencil and Paper ready. The volume of a gas at 27 degrees Celsius is 500 milliliters.

A. For fifteen points, find the volume to the nearest integer milliliter at negative 73 degrees Celsius. Note: Degrees Kelvin = Degrees Celsius + 273 degrees.

Answer: 333.33... milliliters ($V_1/T_1 = V_2/T_2$: $500\text{ml}/300\text{K} = X\text{ml}/200\text{K}$)

B. Now whose law did you use to solve this problem

Answer: Charles Law

6. Cervantes would be pleased that 'Don Quixote del La Mancha' has stood the test of time. After all, it was a quickly written parody of romance novels that was designed to be a moneymaker. For a 15 pts each give the actual names of the characters in Don Quixote.

A. He was a Spanish country gentleman who let his estate come to ruin so he could buy books of chivalry, "until, finally, from so little sleeping and so much reading, his brain dried up and he went completely out of his mind." What was the name of the gentleman who became Don Quixote?

Answer: Alonso Quejana

B. Don Quixote chose this woman as his lady love, A buxom country girl famous for her salted pork she became the lady Dulcinea del Taboso in Quixote's delusional mind.

Answer: Aldonza Lorenzo

7. Identify these Byzantine Emperors (fifteen points each):

A. Emperor from 1081 to 1118, he restored the crumbling Empire, defending against Norman invasion, containing the Seljuk Turks, repelling an invasion of nomadic Turks, and putting down risings up in Crete and Cyprus. Whose request for aid against the Turks resulted in the First Crusade in 1096?

Answer: Alexius I Comnenus

B. Emperor from 527 to 565, his reign saw the expansion of the Empire, the reconquest of Africa from the Vandals and of Italy from the Ostrogoths. During whose reign was the Hagia Sophia built?

Answer: Justinian I

8. Complete the following biblical phrases from the given book of the Old Testament, for 10 points each.

A. From the Book of Job, "The price of wisdom is above (blank)."

Answer: Rubies

B. From the 146th Psalm, "Put not your trust in (blank)"

Answer: Princes

C. From Proverbs, "Open rebuke is better than secret (blank)"

Answer: Love

9. Identify the physical units from a description, for 10 points each.

A. The unit of ionizing radiation that will produce $1/3 \times 10^{-9}$ Coulombs of electric charge in 1 cubic centimeter of air under standard conditions.

Answer: Roentgen

B. One volt-second per ampere.

Answer: Henry

C. The amount of radiation that deposits 10^{-2} Joules of energy into 1 kilogram of absorbing material.

Answer: Radiation Absorbed Dose or Rad

10. For five points apiece and five for all correct, what five nations border Senegal?

Answer: Gambia, Mauritania, Mali, Guinea, Guinea-Bissau

11. John Mauchly and J. Presper Eckert are two of America's most famous computer pioneers. For fifteen points each identify the following computers they are responsible for (use acronyms please):

A. At the University of Pennsylvania in 1943, they developed this computer for the army which could operate "Error Free" for over 12 hours

Answer: ENIAC

B. They went into private industry in 1946, and were bought out in 1950 by Remington Rand where they launched the first large commercial computer which went by this name.

Answer: UNIVAC

12. BONUS Claims of discovery are often erroneous. According to accepted historical research, Who led the parties that really reached the following places first through the following media of transportation for five points each and five more for all correct:

A. North Pole by land

Answer: Peary Apr 6, 1909

B. South Pole by land

Answer: Amundsen Dec. 14, 1911

C. North Pole by air

Answer: Byrd May 9, 1926

D. South Pole by air

Answer: Byrd Nov 29, 1929

E. North Pole by water

Answer: USS Nautilus (accept Captain Anderson)

13. BONUS ACF may be the opiate of the intelligentsia. So answer the following questions about opium for five points each: Would the following drugs be classified as Naturally Occurring Opiates, Semisynthetic Opiates or Synthetic Opiates:

A. Heroin

Answer: semisynthetic

B. Morphine

Answer: Naturally Occurring

C. Codeine

Answer: Naturally Occurring

D. Methadone

Answer: Synthetic

E. Now, Give any year in the first and second opium wars respectively, five points each.

Answer: first Opium War: 1839, 1840, 1841, 1842; second Opium War 1856, 1857, 1858, 1859, 1860

14. Identify the artist 30-20-10.

A. (30). In 1924, at the age of 42, he married Josephine Nivison, who became his lifelong partner, model, and chronicler.

B. (20). Born in Nyack, New York, he studied painting at the New York School of Art under Robert Henri, and he later formed his studio at 3 Washington Square North in New York City.

C. (10). His paintings include Cape Cod Morning, Second Story Sunlight, and Rooms by the Sea.

Answer: Edward Hopper

15. BONUS Identify these Mayors of Chicago for ten points apiece:

A. Frank Nitti, leader of the Chicago Mob, tried to rub out this mayor twice, including the night he actually was killed, only to be foiled by Eliot Ness's Untouchables. However an unemployed bricklayer named Zangara unintentionally killed him in Miami when aiming for President-Elect Roosevelt.

Answer: Anton Cermak

B. This boss of Chicago lambasted the students at the 1968 Democratic Presidential Convention, leading what has been called a Police Riot.

Answer: Richard Daley

C. He is the current Mayor Chicago

Answer: Richard Daley Jr.

16. You knew this question was trouble when it walked in the door. Busting through like a two ton gorilla asking you about noir, film noir. Given the description of the film, name that film.

A. Fred MacMurray of 'Absent Minded Professor' and 'My Three Sons' fame plays Walter Neff, an insurance salesman, who is desperate to score figuratively and otherwise with Phyllis Dietrichson played by Barbara Stanwyck in this 1944 Billie Wilder film co-starring Edward G. Robinson.

Answer: Double Indemnity

B. This 1958 film is considered the B film of the genre. Orson Welles was hired originally only to act in it but, under pressure from Charlton Heston, he ended working on the script and directing as well. Basically a story about a corrupt, violent town cop, a Mexican government investigator and his new wife involved a murder investigation in a run down border town. This film boasts the longest continuous shot in cinematic history which lasts 3 minutes long.

Answer: Touch of Evil

17. Identify this figure from American History 30-20-10

A. (30). He was born in Berkeley county, South Carolina in 1732. He had his first experience in war as a lieutenant of colonial militia in 1761, when he led a successful attack against the Cherokee.

B. (20). After the battle of Camden in August 1780 he could only form a small band of fighters favoring guerrilla tactics; After the war he served several terms in the South Carolina Senate.

C. (10). He and his soldiers repeatedly darted out of the marshes to attack the British; his shrewd daring raids earned him the nickname of The Swamp Fox.

Answer: Francis Marion

18. Proteins in the human body are made from an assortment of 20 basic amino acids. Answer the following questions about amino acids.

A. For ten points apiece, these 2 amino acids participate in the Urea cycle and are NOT part of the standard set of 20. One is formed by the hydrolyzation of Arginine; the 2nd is formed by carbamoylation of the first.

Answer: Ornithine And Citrulline

B. For a final ten points, this amino acid is often hydroxylated in collagen, in which it appears in abundance; it is also the only one of the 20 amino acids which is actually an imino acid.

Answer: Proline

19. Identify the following investment and finance terms, 15 points each.

A. It's the measure of the sensitivity of an asset's return to changes in return on the market portfolio. Mathematically, it is the security's covariance with the market portfolio divided by the variance of the market portfolio.

Answer: Beta coefficient (or market Beta)

B. It is the difference between the spot price of an asset and the futures price of the same asset.

Answer: Basis

20. In Hinduism there are three aspects of the Absolute Universal spirit as manifested in three deities. For 10 points each name the three deities that compose the Trimurti

Answer: Vishnu, Brahma and Shiva