

Round 4

Packet by Matt Cvijanovich, Mike Falk, and Paul Tomlinson.

1. As a philosopher he supported the communitarian ideals of Fourier helping to fund a socialist community in New Jersey. He also espoused an organized settlement of the west, which resulted in *An Overland Journey*, a compilation about his trip to California in 1859 and a namesake town that now houses the University of Northern Colorado. In politics he helped Harrison win the 1840 election by publishing the campaign weekly *Log Cabin*, came to Lincoln's support when balloting had begun in the 1860 Convention, and lost the 1872 presidential election to Grant. FTP, name this publisher, who founded the New York Tribune.

Answer: Horace Greeley.

2. The number thirteen was used because it represented witches' covens and worship of the mother goddess as well as the last supper. All types of media and techniques were employed and before it was finished in 1979, 400 workers were employed in its creation. Butterfly images were drawn on to represent liberation and vulvic images were symbolic of feminine sexuality. The central table is triangular with three sides of thirteen and the floor is paved with the names of 999 other "women of achievement" FTP, name this feminist work of art featuring place settings for 39 important women, created by Judy Chicago.

Answer: The Dinner Party

3. His name supplies the nickname of the oldest tree on earth, a 4,723 year old bristlecone pine found in California's White Inyo range and a gene recently discovered by DeCode Genetics using data from Iceland. His children, in a Robert Heinlein novel, were the Howard Families, a group of people including Lazarus Long. Biblical scholars suggest his name means "man of the javelin," although "When he dies, Judgment" has also been suggested. FTP name this son of Enoch, father of Lamech, and grandfather of Noah who lived an amazing 969 years.

Answer: Methuselah.

4. It ends with a praise of sisterhood, including the lines, "For there is no friend like a sister in calm or stormy weather." It was viewed as a children's work despite lines such as "she suck'd and suck'd and suck'd the more/ Fruits which that unknown orchard bore;/ she sucked until her lips were sore" because of the fairy-tale themes of forbearance and temptation represented by the oft-repeated line "Come buy, Come buy." FTP name this work centered around an encounter between the sisters Laura and Lizzie, and the title creatures, the most famous poem of Christina Rossetti.

Answer: Goblin Market.

5. He took up the violin at age six and the flute at age eight. In 1952, at age 15 he enrolled at the University of Chicago, though he majored in mathematics and philosophy,

not music. After graduation he studied and was influenced by eastern music, especially traditional Indian music. Influenced by John Cage, he developed his own style, becoming one of the pioneers of the minimalist movement. However, in recent years he's been best known as a soundtrack composer, writing for such movies as "Candyman" and "The Truman Show." FTP, name this American composer of "Einstein on the Beach."

Answer: Philip Glass.

6. G.L. Gouy found that it was more rapid for smaller particles and experiments also showed that it increased with the temperature of the liquid. First observed by an English botanist in 1827, the first to produce a theory explaining it was Desaulx who hypothesized that it was a result of thermal molecular motion. This theory is essentially correct and due to Einstein's mathematical explanation of 1905 even skeptics such as Mach had to except that that it conclusively demonstrated the existence of material atoms. FTP name this type of continuous and erratic motion in which molecules in liquid move larger objects such as pollen grains.

Answer: Brownian Motion.

7. During an early trip with cousin John Hawkins he had to fight through a Spanish fleet to get out of the port of Vera Cruz. On later voyages he attacked a silver-laden mule-train in Panama, captured and sacked Cartagena, and made a daring raid on Cadiz. On his most famous voyage he discovered that Tierra del Fuego was an archipelago rather than a separate continent, and claimed Nova Albion on the California coast for Queen Elizabeth, who knighted him on his return in 1580. FTP name this English sea-dog, who fought the Armada and circumnavigated the world aboard the Golden Hind.

Answer: Sir Francis Drake.

8. An un-credited role in *Raging Bull*. Ray in *Desperately Seeking Susan*. Allen Ginsberg in *The Source*. Julian in *The Color of Money*. Detective Larry Mazilli in *Clockers*. Bernie Bernbaum in *Miller's Crossing*. Barton Fink in *Barton Fink*. Sean Armstrong in *Collateral Damage*. Herbie Stempel in *Quiz Show*. Knish in *Rounders*. Pete in *O Brother Where Art Thou*. FTP name this veteran character actor who portrayed Howard Cosell in ESPN's *Monday Night Mayhem* and Jesus Quintana in *The Big Lebowski*.

Answer: John Turturro.

9. The aromatic kind are often used in dyes that can be carcinogenic, and often they are the cause of unpleasant fishy odors given off by decaying animal and human matter. They form hydrogen bonds with water, however, these bonds are weaker than alcohols and they have lower boiling points than comparable alcohols. They are usually prepared with a treatment of a strong base to an alkylammonium salt formed from a reaction of ammonia and alkylhalide. FTP name this ammonia based functional group in which N-H bonds are replaced by alkyl substituents.

Answer: Amines.

10. After the death of Randolph XII of Saxony and the collapse of the Treaty of Insects this lord of Roxburgh, Selkirk, and Peebles was forced to marry the hideous Infanta of

Spain. This occurred, after his dismissal as archbishop of Canterbury for wearing nun's clothing, but before he, along with his associates Percy and Baldrick, were accused of witchcraft. Other exploits include a 1497 attempt to seize the throne with the help of the seven evilest men in the kingdom, and the accidental slaying of Richard III after his defeat of Henry Tudor at Bosworth Field in 1485. FTP, give the moniker of this fictional Duke of Edinburgh portrayed by Rowan Atkinson in a BBC series, also the name of England's only poisonous snake.

Answer: Edmund, Duke of Edinburgh "The Black Adder."

11. This is the dynasty that gifted Macao to Portugal and, though the courtly scholars did not see its value, it was during the rule of this dynasty that Zheng He sailed West to Mogadishu and Jiddah. Unsurprisingly, this dynasty sponsored the rise of Neo-Confucianism, but it also executed nearly 40,000 people in connection with a prime ministerial plot against its first emperor. FTP, name this Chinese dynasty that, among other things, built the Forbidden City.

Answer: Ming

12. Paul Laurence Dunbar addressed one to Frederick Douglass, and Matthew Arnold wrote one about Shakespeare, Milton composed one "On His Blindness." Poe wrote "To Science." and Robert Burns composed one about them. Wordsworth penned one "Composed Upon Westminster Bridge" and it was the form Shelley used for "Ozymandias," Keats for "On First Looking into Chapman's Homer," and Elizabeth Barrett Browning for her collection of them "From the Portuguese." FTP name this form of verse, fourteen lines long, usually either Petrarchan or Shakespearean.

Answer: Sonnet.

13. Although spread across the entire ocean it has most frequently been found near Scandinavia, Japan, Australia, and New Zealand where Clyde Roper recently led an expedition to study it. Nothing is known about its social organization, but scientists know that it feeds on deep-sea fish like orange roughy and hokie which it shreds with its tooth filled radula located on its tongue as well as its beaks. It also boasts the largest eye in the animal kingdom. The cephalopod *Architeuthus dux* was once believed to be the mythical kraken. FTP name this ten tentacled 60 footer whose only natural enemy is the sperm whale.

Answer: Giant Squid. (also accept Architeuthus dux before it is said).

14. One supposed incarnation of this goddess is Serqet (ser-KET), a dominant, highly sexualized fertility figure who wore a scorpion crown on her head. As this goddess, her realm was the healing and warding off of poisons - specifically those associated with insect and snake bites. Another incarnation is Aset or Ast, commonly associated with Astarte of Babylon, another figure of both healing and fertility. She is best known as the sister of Nephthys, daughter to Nut and Geb. FTP, name this sister to Set, mother to Horus, and sister-wife and savior to Osiris of the Egyptian pantheon.

Answer: Isis (Accept Ast or Aset before they are mentioned)

15. Compiling career earnings of \$1,200,000 he has sired champions such as Swale, and

A.P Indy but was purchased as a yearling for only \$17,500. In his first year competing he won all three of his races, including the grade one Champagne Stakes where he ran the fastest mile ever for a two year old. As a four year old he defeated the last Triple Crown winner Affirmed in the Marlboro Cup but lost the Jockey Club Gold Cup. As a three year old, with jockey Jean Cruguet aboard, he won the Kentucky Derby, Preakness, and Belmont. FTP name this 1977 triple crown runner who died on May 7 2002.

Answer: Seattle Slew.

16. Positing that parental indifference, referred to as “the basic evil,” was the key to understanding neuroses, she identified ten patterns of neurotic needs including “affection” and “approval.” She also asserted that neurotics fluctuate between two selves, the despised self and the ideal self. Departing with Freud on many matters, she believed that neurosis was conditioned by society rather than from instinctual drives and disputed his theory of universal penis envy proposing its counterpart, womb envy. FTP name this German-American neo-psychoanalyst author of *New in Psychoanalysis* and *Neurosis and Growth*.

Answer: Karen Horney.

17. The heaviest molecular weight version of this polymer is made by metallocene catalysis polymerization and has replaced Kevlar in bulletproof vests. Fawcett and Gibson first discovered this plastic in 1933, and it played a key role during World War II as a lightweight insulating material. It is produced in the greatest volume of any plastic, yet has a relatively simple structure of a carbon chain with attached hydrogens. FTP, name this common plastic which is found in low density form in grocery bags.

Answer: Polyethylene.

18. Biographers claimed that he had a personal library of 3,000 videos and slept with stars like Stanley Baker and Yul Brynner. Attempting a fusion of pop culture and serious art in works such as *Heartbreak Tango* and *The Buenos Aires Affair*, Vargas Llosa claimed he was the author “who seemed least interested in literature.” His characters were also obsessed with movies, most notably Toto, a child who imagined himself a star in *Betrayed by Rita Hayworth* and Molina who described old movies to Valentin in his most famous work. FTP name the Argentine author of *Kiss of the Spider Woman*.

Answer: Manuel Puig.

19. The name’s the same. The first is located near Ice Harbor Lock and Dam by the confluence of the Snake and Columbia rivers in Longview, Washington. The larger is a mecca of walleye, paddle fish, and salmon fishing and with a length of 178 miles stretching from Williston to Bismarck and a surface area of 368,000 acres contained by the Garrison Dam it is the largest man-made reservoir in the country. FTP give the name of these lakes, Shoshone for bird-women, the name of Lewis and Clark’s guide.

Answer: Lake Sacajawea.

20. It strayed from Bacon’s concept that knowledge could be organized definitely and systematically, yet it retained his idea that knowledge should be useful. To this end eleven volumes were set aside for plates showing the mechanical workings of many

trades and crafts. Art was separated from reason but was given a place in the realm of imagination. Science was given a more precise meaning, and the definition of Philosophy was expanded to encompass the sum of knowledge gained from human reasoning. FTP name this massive work of 72,000 articles by over 140 writers, edited by d'Alembert and Diderot, possibly the greatest work of the Enlightenment.

Answer: Encyclopedie (or Encyclopedia).

21. 203 Metre Hill was the key to the battle, as it dominated the harbor where a Russian Fleet had been bottled up since a sneak torpedo attack that February. The battle proper began when 90,000 men in the 3rd army under General Nogi landed 30 miles north of the harbor. General Stoessel with 30,000 men had managed to hold him off for two months while defenses for the city had been improvised. These defenses repulsed three frontal attacks before the hill was finally taken. FTP name this portent of WWI, the opening conflict in the Russo-Japanese War, the siege of a Manchurian port.

Answer: Port Arthur.

22. Suetonius asserted that its author wrote its lines in the morning and then spent the rest of the day paring these down to a select few which would remain in the completed poem. Influences on it include the Neoteric school of Callimachus and Catullus, Lucretius' *De Rerum Natura*, and the *De Re Rustica* of Varro. Dryden, who translated it into heroic couplets, called it the "best poem by the best poet." It took seven years to write its four books: on field crops, trees, animals, and bees respectively. FTP name this poem about farming in Italy, completed in 29 B.C., by Virgil.

Answer: The Georgics.

23. A WWII vet, and graduate of Alcorn College, his application to law school at Ole Miss was rejected, drawing the notice of the NAACP. He soon became their state field secretary for Mississippi, leading a boycott in Jackson as well as playing an instrumental role in getting James Meredith admitted to Ole' Miss. He also defended the south, although not the prejudice in it, in the essay "Why I Live in Mississippi." However, he became a national figure only after being assassinated outside his home by Byron de la Beckwith. FTP name this civil rights leader and one of the subjects of the film *Ghosts of Mississippi*.

Answer: Medgar Evers.

24. A former car dealer and UW grad, in 1970 he bought the Seattle Pilots. In 1992, he replaced Fay Vincent, and in 1994, he announced that the World Series would be cancelled. FTP, name this former Brewers chairman and current commissioner of baseball who sparked outrage by calling the All-Star Game while the score was 7-7.

Answer: Allan H. "Bud" Selig

25. It is proven by using The Extended Mean Value Theorem, and is often incorrectly used by applying the Quotient Rule and taking the derivative of the quotient rather than finding the derivative of the numerator and the denominator separately and then finding the limit. Although actually proven by John Bernoulli it takes its name from a French mathematician who wrote the textbook in which it first appeared. FTP name this integral

calculus rule in which limits of indeterminate forms such as zero over zero can be found.

Answer: L'Hopital's Rule.

Boni

1. Give the following WWII operations on the Eastern Front with cool names FTPE.

A. This invasion operation jumped off on June 22 with German Army Groups North, Centre, and South heading toward Leningrad, Moscow, and Kiev, respectively. It was named for a 12th century German emperor who died on Crusade.

Answer: Barbarossa.

B. Launched on June 22 1944, the anniversary of Barbarossa, the purpose of this offensive, named after a Russian general who was mortally wounded at Borodino in 1812, was to surround and destroy Army Group Center.

Answer: Bagration.

C. In summer of 1943 the Germans thought this attack plan would crumple the entire Russian line. It called for a pincer movement against the Kursk salient. However, the Russians were prepared and in the largest tank-battle in history, completely defeated the Germans.

Answer: Citadel.

2. Name the 20th century French writers FTPE.

A. The founder of the deconstructionist school, this man focused on showing that language is constantly shifting. His works include *Speech and Phenomena*, *Of Grammatology*, *Writing and Difference*, and *The Post Card*.

Answer: Jacques Derrida.

B. Involved in both the Chinese and Spanish Civil Wars as well as the French Resistance movement he became De Gaulle's minister of cultural affairs. His works include *Man's Fate*, *L'Espior*, and *The Psychology of Art*.

Answer: Andre Malraux.

C. Pessimistic and Nihilistic, his works eventually turned anti-Semitic so much so that he was accused of collaboration and briefly exiled after WWII. Works include the autobiographical *Journey to the End of Night* and *Death on the Installment Plan*.

Answer: Louis Ferdinand Celine.

3. Name the Medieval popes from clues FTPE

A. This influential pope ruled at the height of the papal monarchy from 1198-1216. His protegee, Frederick II was placed on the German throne, and after a long struggle he forced John of England to accept his candidate as Archbishop of Canterbury.

Answer: Innocent III.

B. A hermit living in the Italian countryside, he was elected pope in 1294 after faction fighting in Rome. He reigned for less than a year, resigning under pressure and his own belief that he would go to hell if he continued to be influenced by the corruption in Rome.

Answer: Celestine V.

C. Celestine's successor, he may have forced his predecessor off the Holy See. As Pope, he tried to re-assert papal dominance over lay rulers with the declarations of Clericos Laicos and Unum Sanctum but was foiled in these attempts by Philip the Fair of France.

Answer: Boniface VIII.

4. Give the classic rock song from lyrics FTPE or for five if you need the performer

A. (10) Lost in a Roman...wilderness of pain/ And all the children are insane/ All the children are insane/ Waiting for the summer rain, yeah.

(5) The Doors

Answer: The End.

B. (10) Though his mind is not for rent/ Don't put him down as arrogant/ His reserve, a quiet defense/ Riding out the day's events/ The river.

(5) Rush

Answer: Tom Sawyer.

C. (10) I was living to run and running to live/ Never worried about paying or even how much I owed/ Moving eight miles a minute for months at a time/ Breaking all of the rules that would bend.

(5) Bob Seger and the Silver Bullet Band

Answer: Against the Wind.

5. Give the sites from Mesoamerican pre-history from clues FTPE.

A. This ancient city is considered to have been the largest metropolis of its time, was situated on a salt lake, and fell to Cortes on August 13, 1521.

Answer: Tenochtitlan

B. This site, along with Copan, were the centers of classical Mayan civilization in Guatemala circa. 700 A.D. Containing 75,000 inhabitants it was spread haphazardly throughout 75 square miles. Its major temple is that of the Great Jaguar in the Central Plaza.

Answer: Tikal.

C. This site was the center of the revived northern Maya in the Yucatan about 900 A.D.

In contact with the Toltec civilization, its two major attractions are the “Observatory” and the Castillo a four-sided step-pyramid.

Answer: Chichen Itza.

6. Give the kinship terminology system from clues FTPE.

A. In this naming system all members of the nuclear family have specific names while extended relatives are lumped into a few terms, e.g. the term for father’s brother and father’s sister’s husband is the same. It is used by hunter-gatherer and advanced industrial societies that focus on mobility.

Answer: Eskimo System.

B. This system, prevalent in cultures that practice ambilineal descent, uses the fewest terms as it only recognizes generation and sex as differentiators, i.e mother, mother’s sister, and father’s sister are all called by the same terms.

Answer: Hawaiian System.

C. This system stresses the importance of one side of the family as in rural China or the Indians of the NE U.S.. Cross cousins are regarded as siblings but parallel cousins are prime marriage prospects. Father and father’s brother have the same term but mother’s brother is different.

Answer: Iroquis System.

7. Fun with the World Cup and Geography. Give the country from major exports and large non-capital cities FTP or from World Cup info for five.

A. (10) Exports include fish, ground nuts, and petroleum products. Large cities include Kaolack and Matam.

(5) With the help of stars Pape Thiaw and Henry Camara this team newcomer made it to the quarter-finals propelled by a shocking opening game victory over France.

Answer: Senegal.

B. (10) Exports include soybeans, animal feed, meat, and cotton. Cities include Villeta and Encarnacion.

(5) Their team went 1-1-1 barely edging out South Africa to finish second in their group and advance. Stars include Jose Louis Chilavert and Roque Santa Cruz

Answer: Paraguay.

C. (10) Exports include petroleum products, lumber and cocoa beans. Cities are Bonaberi and Douala.

(5) This team also went 1-1-1 but finished behind Germany and Ireland, failing to advance. With stars Patrick Mboma and Rigobert Song they were expected to be the best African nation.

Answer: Cameroon.

8. Name the epic poems from clues FTPE

A. Compiled by Elias Lonnrot from old folk poems this Finnish national epic, featuring the adventures of the poet-warrior Vainamoinen was published in 1835.

Answer: Kalevala.

B. Written around the first millenium this Persian national epic was written by Firdawsi of Tus. Its massive 60,000 lines chronicle Iranian history from its beginning until the Muslim conquests.

Answer: Shahnama or Book of Kings.

C. This creation story of the Maya features the creation of humans from maize by the god Heart-of-Sky as well as the adventures of the Hero Twins Hunahpuand and Xblanque against the Underworld Gods.

Answer: Popol Vuh.

9. Give the women associated with the prophet Mohammed from clues FTPE.

A. Mohammed's first wife, a wealthy widow, the prophet worked for her caravan business before they were married. She became his first convert, but died before the flight to Medina.

Answer: Khadija.

B. Mohammed's daughter, she was married to Ali. She fought to have her husband made caliph instead of Abu Bekr and died soon after her defeat. She would become a hero to the Shiites and the namesake of a future dynasty.

Answer: Fatima.

C. This daughter of Abu Bekr was Mohammed's favorite wife and a leading Muslim religious authority. She supported her father in gaining the caliphate and led an unsuccessful rebellion against Ali when he finally became caliph.

Answer: Aisha.

10. Given a quote from Lawrence and Lee's play *Inherit the Wind* identify the character who spoke the words 5-5-10-10

A. "I may be rancid butter,/ But I'm on your side of the bread"

Answer: E.K. Hornbeck.

B. "You smart aleck: You have no more right to spit on his religion than you have right to spit on my religion: or my lack of it"

Answer: Henry Drummond.

C. "You sure picked the long shot this time, Mr. Drummond."

Answer: Bertram Cates.

D. "Mr. Drummond, I hope I haven't said anything to offend you. You see, I haven't

really thought very much. I was always afraid of what I might think - so it seemed safer not to think at all. But now I know. A thought is like a child inside our body. It has to be born. If it dies inside you, part of you dies, too!"

Answer: Rachel Brown.

11. Name the "new" dinosaurs from clues, FTPE

A. This dinosaur, first found Patagonia in 1987 may be the largest land animal to have lived. Shaped like a brontasaurus, it was much larger, with a length of 110 feet and a weight of 100 tons.

Answer: Argentinosaurus.

B. This massive predator, also discovered in Patagonia, probably preyed on the Argentinosaurus. Its skull is six feet long, a foot longer than that of a T-Rex

Answer: Gigantosaurus.

C. Although first discovered in 1912, research on this predatory dino has just been picking up. Possibly 65 feet long with a large alligator type snout it was depicted munching on a T-Rex in Jurassic Park III.

Answer: Spinosaurus.

12. Give the figures in the reunification of Japan FTPE.

A. Beginning his rise by using and then destroying Ashikaga Mitsuhide, he introduced firearms and crushed the political power of Buddhism under of the philosophy of "Rule the Empire by Force" but was eventually killed by one of his own generals in 1582.

Answer: Oda Nobunaga.

B. Avenging and replacing Nobunaga this son of a peasant continued the consolidation, invading Kyushu as well as invading Korea. He also began the "great sword hunt," demilitarizing Japan but his system collapsed after his death.

Answer: Toyotomi Hideyoshi.

C. Said to have eaten the pie his contemporaries Nobunaga made and Hideyoshi baked, he quickly defeated his rivals and completed the unification, becoming shogun in 1603 creating the dynasty that would rule Japan for over 150 years.

Answer: Tokagawa Ieyasu.

13. Name the later Rococo artists FTPE

A. This man, a student of Watteau, and painter for Madame Pompadour was an excellent portraitist but is best known for his allegories and Arcadian themes best exemplified in 1754's "Cupid a Captive."

Answer: Francois Boucher.

B. Boucher's student and a great colorist this man is most famous for his flirtatious and

voyeuristic painting "The Swing."

Answer: Jean-Honore Fragonard.

C. A student at Rome who took a Roman pseudonym his small statues were designed for tabletops and reminiscent of Bernini. His most famous work is 1775's playful set "Nymph and Satyr."

Answer: Clodian or Claude Michel.

14. Answer these questions about barometric pressure FTPE.

A. On a weather map, what is the name for a line that connects points of equal barometric pressure?

Answer: Isobar.

B. What is the Standard Atmospheric Pressure at sea level on earth, to the nearest inch of mercury?

Answer: 30 inches of mercury.

C. Convert that same pressure to the nearest bar.

Answer: 1 bar

15. The year was 1959, and the ground-breaking jazz album was called *Time Out*. It featured seven tracks, all in odd time-signatures. FTPE,

A. Name the leader of the quartet which recorded *Time Out*.

Answer: Dave Brubeck.

B. Arguably the most famous track on "Time Out", it is the only track on the album, and perhaps the only jazz tune ever, in 5/4 ("five-four") time.

Answer: "Take Five."

C. Name the alto saxophonist in the Dave Brubeck Quartet who wrote "Take Five".

Answer: Paul Desmond.

16. Identify the H.G. Wells short stories from clues FTPE.

A. A pale man on a train describes a vivid series of dreams, to the narrator, in which he was a world leader who elopes with a woman allowing his former subordinate, Eveshawn to instigate a world war with amazingly deadly weapons.

Answer: A Dream of Armageddon.

B. Lionel Wallace relates a story to the narrator which begins when he is five years old and enters through the title object to a utopia. He is haunted, eventually to his death, because he never returns despite many opportunities.

Answer: A Door in the Wall.

C. The narrator takes a trip down a South American river to discover what is happening in the jungle. He discovers a group of the title insects, larger, more intelligent, and better equipped than their normal counterparts who are rapidly expanding their domain.

Answer: Empire of the Ants.

17. Answer questions about the 2002 U.S. Open

A. This is the golf course on Long Island where the tournament was held. It was the first truly public course ever used for a U.S. Open.

Answer: Bethpage Black.

B. Tiger Woods won the tournament, but name the man who finished second with a score of even par, who was unable to shake the tag of the best active player never to have won a major.

Answer: Phil Mickelson.

C. This consummate professional finished third with a score of plus two, giving him his fifth top ten appearance in U.S. Opens.

Answer: Jeff Maggert.

18. Give the constants from their numbers and units 5-5-10-10

A. (5) 9.109×10^{-31} kg

Answer: mass of an electron.

B. (5) 6.626×10^{-32} J*s

Answer: Planck's constant.

C. (10) 2.246×10^{-12} m

Answer: Compton wavelength of electron.

D. (10) 1.097×10^7 m⁻¹

Answer: Rydberg constant.

19. Give the Norse God from words attributed to them in literary works.

A. "Born I was of mothers nine,/ Son I am of sisters nine"

Answer: Heimdall.

B. "Averagely wise a man ought to be,/ never too wise; no one may know his fate beforehand,/ if he wants to be a carefree spirit" (from "The Sayings of the High One" in the Poetic Edda).

Answer: Odin.

C. "Am weary of the mountains;/ Not long was I there,/ Only nine nights;/ The howl of the wolves/ Me thought sounded ill/ To the song of the swans"

Answer: Njord.

20. Answer the following involving Neo-Platonic Philosophy FTPE.

A. This Platonic dialogue also called “On the Soul” features Socrates’ last conversation, about the immortality of the soul. It also presents a position, later adopted by Neo-Platonists that worldly things are evil and must be avoided as much as possible.

Answer: Phaedo.

B. This founder of Neo-Platonism wrote *The Enneads* and stressed a union with the Absolute through contemplation and the detachment of the soul from the material world.

Answer: Plotinus.

C. This leader of the Syrian school followed Plotinus to some extent but was more superstitious, appealing to mysticism and stressing allegorical interpretations. It is his arguably decadent form of Neo-Platonism that enthralled the emperor Julian.

Answer: Iamblichus.

21. Name these famous volcanoes FTPE.

A. This Italian volcano, home of Vulcan’s workshop, has had major eruptions in 1669 and 1787, as well as some fairly spectacular eruptions in 2000 and 2001.

Answer: Mount Etna.

B. This Alaskan volcano erupted and imploded in 1912, turning a 7-thousand foot summit into a crater. The area is now a national park.

Answer: Mount Katmai.

C. This volcano in the Philippines killed about 800 people when it erupted in 1991.

Answer: Mount Pinatubo.

22. Give the sociological experiments from clues FTPE.

A. This experiment showed that most people were obedient to impersonal authority figures. Over 2/3 of the subjects continued giving electrical shocks to their “learners” when they gave incorrect answers, despite their showing signs of pain.

Answer: Stanley Milgram experiment.

B. This experiment, headed by Stanley Zimbardo and held at a west coast school, divided subjects into guards and prisoners. The guards treated the prisoners horribly and the prisoners accepted this treatment, showing that people adopt predictable patterns of social interaction.

Answer: Stanford Prison Experiment.

C. In this experiment, conducted from 1924 to 1933 at a plant of the Western Electric Company, a research team under Elton Mayo discovered that worker productivity increased even when the experimenters did something obviously detrimental, thus

illustrating the influence that experimenters have on their subjects.

Answer: Hawthorne experiment.

23. Identify the Melville characters from clues FTPE.

A. This first mate of the Pequod had as his harpooner the “savage” Queequeg, close friend and companion of Ishmael, narrator of *Moby Dick*.

Answer: Starbuck.

B. The sadistic master of arms who terrorizes but is finally killed by Billy Budd, forcing Captain Vere to hang the man he views as a son.

Answer: John Claggart.

C. The narrator of *Typee*, he escaped from his ship, the “Dolly” along with his friend Toby, traveling into the Typee Valley where he was treated kindly by the natives but was kept as their captive.

Answer: Tommo.

24. Name these staples of the Game Show Network's television lineup FTSNOP.

A. (5) The regular center square was Paul Lynde in the first run of this tic-tac-toe game, Joan Rivers in the second run, and Whoopi Goldberg in the third.

Answer: Hollywood Squares.

B. (10) Two teams, each consisting of a celebrity and a contestant, try to communicate a secret word to each other using only one-word clues. The show was hosted by Allen Ludden.

Answer: Password.

C. (15) It's one of Game Show Network's original shows. Teams of two contestants answer trivia questions to win money, then play Prisoner's Dilemma to see if they split the winnings, if one contestant takes all, or if both leave empty-handed.

Answer: Friend or Foe.

25. The 7 crystal systems represent all possible combinations of edge lengths and interaxial angles for ordered solids. For 5 points each, name 6 of the 7 crystal systems.

Answer: Cubic, Hexagonal, Tetragonal, Rhombohedral, Orthorhombic, Monoclinic, Triclinic