Buzzerfest VII: 15 Minutes to Wapner

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Packet by Rutgers-NB (Emily Hartmann, Saul Foresta, Larry Goldman, Matt Rolnick)

Tossups

1. The oldest one in the world is believed to be located in Kairouan, and dates back to roughly 730 A.D. Other famous ones include the Gobauru, which is made of mud brick, the Malwiyya, a giant, spiraling one at Samarra, and a set of four added to the Hagia Sophia to signify Ottoman conquest. Banned in Wahhabism because they were not used until after the time of Muhammad, they sometimes are cited as a source of noise pollution in communities because of the loudspeakers often housed in them. FTP, name these towers from which the muezzins call Muslims to prayer.
ANSWER: **minaret**s

2. Dorcas Gustine was unpopular because she spoke her mind. Reverend Lemuel Wiley saved the Blisses from divorce. Mrs. George Reece blames the villain of the work and his son for causing the fall of the bank, sending her husband to prison, and leaving her and her children indigent. Sam Hookey tells his story of being eaten by lions after running away with the circus. The maligned villain, Thomas Rhodes, leaves behind a message boasting that death proves worldly pursuits trump spiritual ones. FTP, the epitaphs of the above townspeople all appear in what poetic collection by Edgar Lee Masters?
ANSWER: ***Spoon River Anthology***

3. Originally it contained a bunch of grapes that were held out in a teasing manner, but they are no longer there. Cast in an "S-Curve" that since has been named after this work's creator, the nude title figure leans against a cloth-covered tree trunk, with one of his arms broken off, the other supporting a divine baby that leans against him. Located at the museum of Olympia and made out of Parian marble, FTP, what is this work considered one of the only surviving sculptures of Praxiteles, a rendition of the Greek messenger god?
ANSWER: ***Hermes*** *and Dionysus.*

4. Its unnamed characters include a poet who often stops by the big house on the corner, an apparently Jewish man called the King of the Pressure Cookers, and a leftist politician called the Candidate, based on the author's father. The head of this novel's main family becomes wealthy by exploiting his laborers at Tres Marias, and his original fiance, Rosa the Beautiful, died by accidentally taking poison. Other major family members are Clara, Blanca, and Alba, in, FTP, what magic realist novel about the Truebas, written by Isabel Allende.
ANSWER: *The **House of the Spirits*** or La ***Casa de los Espiritos***

5. They appeared in the movie Idle Hands, where they performed a cover of the Ramones', "I Want to Be Sedated." This band first formed as a collaboration by cross country teammates from Pacifica High in 1984, under the name Manic Subsidal. After changing their name, they went on to release a self titled album on Nemesis records in 1989, and two albums on Epitaph records, the first of which featured "Kick Him When He's Down" and was entitled *Ignition*. FTP, name this band fronted by Dexter Holland, probably most famous for the song, "Pretty Fly (for a White Guy)" and the album *Smash*.
ANSWER: The **Offspring**

6. This first use of this term is attributed to Giulio Clemente Scotti, a French satirist who wrote about a kingdom of "self-seekers." Wittgenstein used an example involving the expression of pain to challenge it in his *Blue and Brown Brooks*, and Berkeley avoided this form of thinking by attributing its nature not to the individual, but to God. Claude Brunet is considered the only major philosopher to advocate this belief seriously, though the ideas it espouses can be seen in Descartes' statement, "*cogito ergo sum.*" FTP, name this philosophical view that holds nothing exists outside the self and the rest of the world is a construction of one's consciousness.
ANSWER: **solipsism** (do not accept "egoism)

7. 20 years after this man's death, Jurg Spiller compiled his notebooks into two volumes, *The Nature of Nature* and *The Thinking Eye*, which were mainly composed of his lectures at the Bauhaus. Among his works are a self-portrait entitled *Lost in Thought*, which depicts him with a snout-like nose and horizontal vaginas for eyes; the colorful and geometric abstract painting, *Red and White Domes*, and the grotesque and oddly titled etching *Two Men Meet, Each Believing the Other to Be of Higher Rank*, created several years before he joined the Blue Rider group. FTP, name this Swiss painter of *Twittering Machine*.
ANSWER: Paul **Klee**

8. It was colonised circa 2000 BC in the area between the Third and Fourth Cataracts. Its succession was passed maternally and its rulers included the females: Shanakdakheto and Amanirenas. After it was conquered in 591 BC by King Psamtek II, the 25th dynasty it controlled was ended and its capital was moved from Napata to Meroe. FTP, name this Ancient kingdom, which was after three centuries of decline, supplanted commercially by Axum after it was defeated by the Nubian people.
ANSWER: **Kush** or **Kushite** Kingdom

9. Violation of Section 2, its main source of controversy, was punishable by up to two years in prison and a fine of up to $2000. William Duane and James Callender were among the 25 prosecuted under it, and the first person convicted was Matthew Lyon, who had earlier sent a letter to the Vermont Journal. Part of a series of legislation enacted as a response to the Quasi-War, it was protested in the Kentucky and Virginia Resolutions. FTP, name this law effectively forbidding criticism against the government, a companion of the Alien Enemies Act.
ANSWER: **Sedition** Act

10. Its properties are independent of the composition of the responsible material, as shown by Kirchoff's law. The associated monochromatic energy density function must scale as one over the fifth power of the wavelength times some function of wavelength times temperature, according to Wien. A more detailed model using standing cavity modes resulted in the ultraviolet catastrophe. The quantum hypothesis was introduced by Planck to correctly model, FTP, what distribution of light emitted by a perfect absorber?
ANSWER: **blackbody** radiation distribution

11. One of his most famous performances was a duet with Charles Lafont on a double concerto by Kreutzer, which was marketed as a duel that this man "won" easily. He allegedly composed a sonata at age eight, and he drew on the work of Pietro Locatelli to produce his most famous set of works, a series of difficult technical solo pieces for his instrument. Renowned for such acts as playing his *Witches' Dance* after severing three strings on his violin, FTP, who is this Italian virtuoso whose 24th Caprice inspired a rhapsody by Rachmaninoff?
ANSWER: Niccolo **Paganini**

12. At constant temperature and pressure, the Gibbs-Duhem equation shows the interdependence of changes in this quantity for different substances in a mixture. At energies well above this temperature-dependent quantity, the Fermi-Dirac and Bose-Einstein distributions approach the Maxwell-Boltzmann distribution. This quantity determines how each of the thermodynamic potentials varies with composition. FTP, name this quantity, the Gibbs free energy per particle, symbolized by the lowercase Greek letter mu.
ANSWER: **chemical potential** (prompt on "potential")

13. His grandson led a campaign that included the battle of Cortenuova in an effort to undo the terms of the Peace of Constance, which this ruler was forced to sign. In his earlier years, he had his forces capture Arnold of Brescia and turn him over to papal authorities, which earned him a crown from Adrian IV. Relations with the pope soon deteriorated, and the end result was his defeat at Legnano at the hands of the Lombard League in 1176. FTP, name this Holy Roman Emperor who drowned in a river while leading the Third Crusade in 1190.
ANSWER: **Frederick Barbarossa** or **Frederick I**

14. Much like the quizbowl scene, this tragedy features two old geezers preparing to hang out with people much younger than them; only these two dinosaurs are Tiresias and Cadmus, and they actually express some shame about it. Meanwhile, the main character is driven mad, dressed like a woman and paraded

about Thebes by a mysterious stranger. A messenger then describes the savage murder of the main character at the hands of the title group, a member of whom being his mother Agave, unaware that the severed head she carries around belongs not to a lion cub, but to her son Pentheus. FTP, name this Euripides play showcasing the power of Dionysus and his titular band of female followers.
ANSWER: *The **Bacchants*** or *The **Bacchantes*** or *The **Bacchae***

15. The hero of Cormac's Vision sees five of them upon reaching the palace of Mannaman. It resided in Segais, located underneath nine hazel trees that provided the nuts that it was accustomed to eating. One day it was captured to provide a meal, but while cooking, it developed a boil on its skin that caused the cook to touch it and suck his thumb off to relieve the burning. The cook tasted its flesh inadvertently, upsetting the boy's master, the poet Finnegan. FTP, name this fish that gave infinite wisdom to the man who ate it, Finn MacCool.
ANSWER: **salmon of knowledge** or **salmon of wisdom** or **Fintan**

16. This man's proof of his eponymous basis theorem met with slow acceptance from Paul Gordan, the mathematician who proved the finite version, due to its non-constructive nature. Using another existence argument he was able to put to rest the Waring Problem, which generalized Lagrange's four-square Theorem. His challenge regarding the theorem of the straight line as the shortest distance between two points was dismissed as too vague, and is one of four of his challenges that has not yet been solved. FTP, name this mathematician, the namesake of the Hotel paradox who once presented a list of 23 unsolved problems in mathematics.
ANSWER: David **Hilbert**

17. Researchers have tried to measure its presence online by entering chat rooms of varying sizes and asking users there for technical help. One such example of it occurred in 1998, when a man confessed to a fatal act of arson in a popular chat room, yet police only reported three calls about it. One theory attributes it to pluralistic ignorance, while Latane and Darley attributed it to a diffusion of responsibility that occurs when other people are around. FTP, name this effect of social psychology, associated with the publicly witnessed murder of Kitty Genovese.
ANSWER: **bystander effect**

18. Poland, Belgium, France, and Japan signed the final version the March before its terms began, making them the last of the 62 countries to ratify it. Its most lasting influence came after World War II, where Nazi Germany was charged with violating its provisions during the Nuremberg trials. Otherwise, it is remembered as a failure because of its unenforceability: for example, the U.S. Senate passed a bill for the construction of warships right after its signing. FTP, name this bill sponsored by Calvin Coolidge's Secretary of State and a French foreign minister that unsuccessfully tried to make war illegal.
ANSWER: **Kellogg-Briand** Pact

19. In Letter XI, the title character's mother advises her to commit adultery rather than fool around, noting that "a married woman injures only her husband, a single woman herself." The title character seems to take this advice, as a short note in the end reveals that she has been caught in bed with Parson Williams by her husband, Squire Booby, ironic considering her earlier steadfastness in preserving her "Vartue." Written before its author's more involved satire, *Joseph Andrews*, FTP, name this short Henry Fielding work whose title is a play-on-words of Samuel Richardson's *Pamela*.
ANSWER: *An Apology for the Life of Mrs. **Shamela** Andrews*

20. They were first observed in a 1968 experiment using pulse labeling with radioactive 3H thymidine. Extended during the process of nick translation, they are produced by the replisome. They were proposed as a way to resolve the existence of strands from 3' to 5' required by the Watson and Crick model, and showed the synthesis of DNA is discontinuous. FTP, what are these fragments which are bound together by ligases to give a continuous strand of DNA.
ANSWER: **Okazaki** fragments

21. Lesser-known battles in this location include a battle against the Celts in 279 BC and a battle against the Romans in 191 BC. There was a shortage of soldiers at the most famous battle here, three centuries

earlier, because the allied city states could not agree where to meet. The coalition seemed to be winning until Ephialtes betrayed them and told Xerxes about a secret path, leading to the defeat of the Greeks. FTP, give this battle of the Persian War, in which 300 Spartans under Leonidas died while defending a narrow pass.
ANSWER: Battle of **Thermopylae**

Bonuses

1. Stuff about an opera and its composer, FTPE.
(10) The Puccini title character, a professional soprano, jumps to her death from Castel Sant'Angelo after learning that her love Mario has been killed.
ANSWER: *Tosca*
(10) Some critics claim *Tosca* incorporated elements of this style of Italian opera, which involves melodramatic and violent depictions of everyday life in an effort at naturalism.
ANSWER: verismo
(10) This bloody one act opera about Michele and his cheating wife Giorgetta is considered Puccini's one true effort at verismo. Along with *Suor Angelica* and *Gianni Schicchi*, it is part of his *Il Trittico* series.
ANSWER: *Il Tabarro* or *The Cloak*

2. Answer the following about the Spanish American War FTPE.
(10) One of the major causes of the war was the sinking of this ship in Havana harbor, which was later determined likely to have most likely been an accident.
ANSWER: USS **Maine**
(10) As war broke out, this 1898 amendment was released to calm anti-imperialist fears, stating that the U.S. had no intention of annexing Cuba after the war.
ANSWER: **Teller** Amendment
(10) In 1901 this addendum replaced the Teller Amendment, allowing the U.S. to intervene in and oversee Cuban affairs.
ANSWER: **Platt** Amendment

3. French cities, FTP each.
(10) Home of the Sainte Jeanne d'Arc church, this capital of the Alpes-Maritimes département lies on the Côte d'Azur, about half-way between Cannes and Monaco, and is a major city on the Riviera.
ANSWER: **Nice**
(10) To the southwest of Nice on the Riviera is this resort city that hosts annual film festivals.
ANSWER: **Cannes**
(10) Known as "Le Ville Rose" because of its buildings, this fourth-largest city by population in France is also home to a gallery dedicated to Antoine de Saint-Exupery, who lived there.
ANSWER: **Toulouse**

4. Terms from economics, FTPE.
(10) This sign of market failure describes a net negative effect on society that occurs due to an inefficient allocation of resources. Tariffs and monopolies are two common causes for its existence.
ANSWER: **deadweight loss**
(10) The presence of a deadweight loss indicates the absence of this condition, whereas no individual can be made better off without someone else suffering as a result.
ANSWER: **Pareto** efficiency or **Pareto** optimality
(10) Introduced by Harvey Leibenstein, this form of efficiency describes a firm which is able to make the maximum amount of profit on its output from its given input.
ANSWER: **x**-efficiency

5. Name these numerical concepts from Buddhism, FTPE.
(10) Skeptical doubt, sloth and torpor, and ill will are among this set of obstacles that can undermine mental and spiritual development.
ANSWER: the **Five Hindrances** or *nivaranas*
(10) Right thought, right speech, and right concentration are steps on this road to enlightenment.
ANSWER: the **Eightfold Path** or **Eightfold Way** or *Astangika-Marga*

(10) Buddha, dharma, and sangha form this trinity that serves as the basis of Buddhism.
ANSWER: the **Three Jewels** or **Triple Jewel** (accept similar answers)

6. The protagonist is an apathetic douche who screws around with Marie Cardona, then gets arrested and put on trial for murder, eventually facing his own execution. FTPE:
(10) Name this novel that opens with the line, "Mother died today, or maybe it was yesterday."
ANSWER: *The Stranger* or *L'Etranger*
(10) He is the Arab-killing protagonist of *The Stranger*.
ANSWER: **Mersault**
(10) The residents of the home for the aged jokingly call him the fiancé of Mersault's mother. In contrast to the calm Mersault, he is thoroughly overcome by grief at the funeral.
ANSWER: **Thomas Perez** (accept either)

7. Computer science stuff, FTPE.
(10) This is a map which assigns input via a key to one of a number of buckets.
ANSWER: **hash** function
(10) This term is used for the situation when two different keys hash to the same bucket.
ANSWER: **collision** or **clash**
(10). Hash functions are used in computing this value which depends on the contents of a block of data and is used to detect data corruption.
ANSWER: **checksum**

8. Nathaniel Hawthorne works, FTPE.
(10) This collection of short stories, published in 1846, includes "Sketches from Memory," "The Celestial Rail-road," and "The Intelligence Office."
ANSWER: *Mosses from an Old Manse*
(10) In this story, Giovanni Guasconti falls in love with the poisonous title character.
ANSWER: **"Rappaccini's Daughter"**
(10) The pink ribbons on the bonnet of the title character's wife, Faith, are famous symbols from this story.
ANSWER: **"Young Goodman Brown"**

9. Identify the following about a historical figure, FTSNOP.
(5) This Venezuelan namesake of a present-day country and founder of Gran Colombia was known as "The Liberator."
ANSWER: Simon **Bolivar**
(10) In 1815 Bolivar wrote a famous letter outlining a practical plan for the state of Spanish America while he was in hiding on this Caribbean Island.
ANSWER: **Jamaica**
(15) Bolivar initially allied with this Venezuelan revolutionary, who became dictator when the nation got its independence in 1811. His surrender to the Spanish in 1812 angered Bolivar, who captured him and delivered him to Royalist forces.
ANSWER: Francisco de **Miranda**

10. Some Greek goddesses can really be bitter. FTSNOP:
(10) As retaliation for being snubbed, this goddess of strife and sister of Ares contributed to the start of the Trojan War by throwing a golden apple.
ANSWER: **Eris**
(5, 5) Five points per answer: Eris was not invited to the wedding of this couple.
ANSWER: **Peleus** and **Thetis**
(10) On the apple was the inflammatory expression "Kallisti," which roughly translates as this.
ANSWER: **"to the fairest"** or **"for the most beautiful** one" (accept obvious equivalents)

11. Answer the following about cell structures involved in waste disposal, FTPE.
(10) Formed by budding off from the Golgi body, these organelles have an acidic internal environment that allows them to digest macromolecules.
ANSWER: **lysosome**s

(10) These structures use enzymes such as oxidases to break down cellular waste products. They are not formed by the Golgi body, but are produced by self-replication.
ANSWER: peroxisomes
(10) One of the distinguishing factors of peroxisomes is the presence of this enzyme that breaks down hydrogen peroxide into water and oxygen gas, which is why cells that contain it will produce bubbles when exposed to H2O2.
ANSWER: catalase

12. In honor of all the wannabe I-bankers at Princeton, here's a bonus on European banking history. FTPE:
(10) During the 1400's and 1500's, this German merchant family, whose patriarchs included Hans, Anton, and Jacob the Rich, built up a substantial base of wealth by banking and financing trade.
ANSWER: Fuggers
(10) Charles V of this ruling family frequently borrowed from the Fuggers to aid political and military campaigns. Later on, this family contributed to the decline of the Fuggers by defaulting on their loans.
ANSWER: Hapsburgs
(10) In the 1609, this city established the first central bank in Europe, the Wisselbank.
ANSWER: Amsterdam

13. Name these paintings found in the Louvre, FTPE.
(10) Three Roman brothers, standing on the left, receive swords from their father while a group of seemingly unconcerned women sit to the right.
ANSWER: The *Oath of the Horatii*
(10) This Veronese work sets the first miracle of Jesus in a Venetian courtyard filled with people attending the titular celebration.
ANSWER: The *Wedding Feast at Cana*
(10) This small, detailed portrait by Vermeer catches the subject intensely concentrating on her work, with red and white threads dangling in the foreground.
ANSWER: The *Lacemaker*

14. They're defined as any atom, ion, or functional group bonded to one or more central atoms or ions. FTPE:
(10) Name these items from chemistry which are usually attached to central metal ions.
ANSWER: ligands
(10) Ligands which bind to a central atom through more than one site of their own are called this.
ANSWER: polydentate
(10) Radioligands are frequently used together with this imaging technique whereby radioactive tracer isotopes are injected into a living subject.
ANSWER: Positron Emission Tomography

15. FTPE, identify these philosophers or their works that talk about chicks.
(10) This Nietzsche work advises, "Thou goest to women? Do not forget thy whip!," in addition to using parables from a Persian religion to expound his ideas.
ANSWER: *Thus Spake Zarathustra* or *Also Sprach Zarathustra*
(10) In his essay "On Women," this infamous misogynist and author of *On the Basis of Morality* wrote that women are "childish, frivolous and short-sighted; in a word, they are big children all their life."
ANSWER: Arthur Schopenhauer
(10) A contrast to the others in this bonus, John Stuart Mill spoke out against gender discrimination in the law in this book, which he worked on with Harriet Taylor.
ANSWER: The *Subjection of Women*

16. Identify these award-winning South African authors from descriptions, FTPE.
(10) This author of *Foe, Waiting for the Barbarians,* and *In the Heart of the Country* won the Nobel Prize in 2003.
ANSWER: John Maxwell Coetzee
(10) She also won the Nobel Prize, in 1991, for works including *Burger's Daughter* and *None to Accompany Me.*

ANSWER: Nadine **Gordimer**
(10) This author of A Dry White Season and On the Contrary won a 2003 Commonwealth Writers' Best Book Award for *The Other Side of Silence*.
ANSWER: Andre **Brink**

17. Answer these questions about particles, FTPE.
(10) This is the class of particles which have odd half integer spin, it includes protons and neutrons.
ANSWER: **fermion**
(10) This unstable particle with mass approximately 207 times that of an electron has a half life of 2 micro seconds when at rest.
ANSWER: **muon**
(10) These particles have no strong interactions, they include the electron and the electron neutrino.
ANSWER: **leptons**

18. Shakespeare play from quotes for 10; 5 if you need the speaker.
(10) "O nuncle, court holy water in a dry house is better than this rain-water out o' door. Good nuncle, in; ask thy daughters' blessing. Here's a night pities neither wise men nor fools."
(5) The Fool.
ANSWER: *King Lear*
(10) "Our doubts are traitors,/ And make us lose the good we oft might win/ By fearing to attempt."
(5) Lucio.
ANSWER: *Measure for Measure*
(10) "Be not afraid of/ greatness. Some are born great, some achieve/ greatness and some have greatness thrust upon/ 'em."
(5) Malvolio, reading a letter.
ANSWER: *Twelfth Night*

19. Given ruling years and a description of a Chinese dynasty, name them, FTPE.
(10) Ruling from 1279-1368, this dynasty was established by the Mongols. Marco Polo visited China during their reign.
ANSWER: **Yuan**
(10) Ruling from roughly the 10th Century BC-256 BC, this dynasty established the notion of the "mandate of heaven."
ANSWER: **Zhou** or **Chou**
(10) Ruling from 1644-1911, this dynasty was the last before the Republic of China was formed. Ruled by the Manchus, they protected China from land invasions.
ANSWER: **Qing** or **Ching**

20. 5-10-20-30, name the gas law.
(A) At a constant temperature, the volume of fixed quantity of a gas is inversely proportional to the pressure.
ANSWER: **Boyle**'s Law
(B) When ideal gasses react, they only do so in volumes that are in small whole number ratios.
ANSWER: Gay-Lussac's law of **combining volumes** (prompt on "Gay-Lussac")
(C) The rate at which a gas escapes into a vacuum through a small opening is inversely proportional to the square root of its molar mass or density.
ANSWER **Graham**'s law of **effusion** (prompt on just "Graham")
(D) Equal volumes of gasses at the same temperature and pressure contain the same number of molecules.
ANSWER: **Avogadro**'s law