

PARFAIT Round 3

Maryland B + Princeton

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1 Maryland B + Princeton Tossups, Round 3

1. Of it, the French Marshal Bosquet later said, “It is magnificent, but it is not war.” The Earl of Lucan misconstrued the orders of Lord Raglan to refer not to gun emplacements on the far side of the hill to his left, but to another set at the far end of adjoining valley. And so he ordered the Earl of Cardigan to lead the 17th Lancers, the 8th and 11th Hussars, and the 4th and 13th Light Dragoons against the Russian infantry and artillery. For ten points, what was this disastrous action of the Battle of Balaclava, immortalized in a poem by Tennyson?

Answer: The Charge of the Light Brigade

2. It transfers gases and nutrients and has metabolic and endocrine activity as well. In addition to producing hormones, it also produces somatomammotropin. It forms part of a barrier which is intended to filter out harmful substances, although viruses and alcohol may sometimes pass through. In most non-monotreme mammalian species the mother severs the umbilical cord and then consumes this. For ten points, name this organ present only during pregnancy which passes nutrients from the mother to the fetus.

Answer: placenta

3. Novelist Richard Wright wrote a scathing review of this work, claiming that it “carries no theme, no message, no thought”, and it fell into obscurity until Alice Walker rediscovered it in the 1970s. The protagonist of the novel marries her first husband, Logan Killicks, but after Nanny’s death she runs off with Jody Starks to Eatonville, Florida. The protagonist ultimately ends up with her third husband Tea Cake, whom she kills in self defense after he is bitten by a rabid dog in a hurricane. For ten points, identify this novel about the life of Janie Crawford, written by Zora Neale Hurston.

Answer: Their Eyes Were Watching God

4. It was influenced by the ideas of Jean-Jacques Rousseau, and stressed personal subjectivity and the unease of man in a contemporary society. It was responsible for firmly establishing its country’s authors as cultural leaders in Europe in the late 18th century. The name for this movement comes from a play by F.M. von Klinger, and its most representative novel was *Die Leiden des jungen Werthers*, or *The Sorrows of Young Werther*. For ten points, identify this German literary movement, a rejection of the rationalist romanticism.

Answer: Sturm und Drang or Storm and Stress or Storm and Urge

5. Just weeks after this group made headlines, the son of one of its members unexpectedly took last place in a primary for an open congressional seat in Ohio. Their agreement did not address the fate of Brett Kavanaugh, William Haynes, or Terence Boyle while explicitly leaving Henry Saad and William Myers in limbo. One of its members boasted that “We saved the Republic,” and another said “we’ll know it when we see it” after being asked about the ambiguous phrase “extraordinary circumstances.” Appellate court nominees Pryor, Brown, and Owen were confirmed and the nuclear option was forestalled by what bipartisan group of Senate moderates in May of 2005.

Answer: Gang of Fourteen (accept close alternatives)

6. When one of his brothers was killed by Loki, his father, Hreidmar, received gold in repayment for the death. He then teamed up with his remaining brother to kill Hreidmar in order to get his gold. When this man decided that he wanted to keep the gold for himself, his greed caused him to change shape into an animal representing greed. His brother, Regin, then sent his foster son to kill this dragon; the son succeeded and then ate this dragon's heart, giving that man greater strength and allowing him to speak to birds. For ten points, name this dragon killed by Sigurd in the Volsung saga.

Answer: Fafnir

7. Near the beginning of his reign, the small seal script was adopted and a number of edicts were written in it, including several famous ones carved on Mount Taishan. He died on one of his numerous tours, and on this one he was searching for the Islands of the Immortals. He instituted a number of reforms, including standardizing the system of weights and measures, and many of his best ideas, such as building the precursor to the Great Wall, were taken from his minister Li Si. FTP, name this "First Emperor" of the Qin dynasty remembered for the extensive terracotta army found in his tomb.

Answer: Shi Huang Di or Zheng or Qin Shi Huang Di

8. Its name comes from the common name for the tree *Myroxylon balsamum*, and was given to it by Berzelius. It is an aromatic hydrocarbon and, like benzene, smells somewhat like paint thinner, and it is used in the making of a diisocyanate compound used to manufacture polyurethane foam. About 25 times more reactive than benzene in electrophilic aromatic substitution because of its methyl group, it has molecular formula C_7H_8 . Probably most famous for its nitrations, which, when heating, can yield the dinitro or trinitro variety, this is, FTP, what compound, abbreviated by the final T in TNT?

Answer: toluene (accept methylbenzene or phenylmethane early)

9. A miniature bronze replica of it drew criticism at the 1893 Chicago Worlds Fair due to its eroticism, and it was not placed on public display. The sculptor rebuked the claim that the work was lewd, stating that it was an homage to women and their bodies. Originally titled *Francesca de Rimini*, as with many of the artist's most famous works, it was originally part of a relief decorating the artist's *The Gates of Hell*. For ten points, name this sculpture, a work of Auguste Rodin.

Answer: The Kiss or Le Baiser

10. These data structures possess a unique characteristic in that they grow from the bottom-up. Specific types include the 2-3 type, where internal nodes are only allowed to have two or three children. Both the number of child nodes within an internal node and the variance are very large, which reduces the need to ever rebalance the tree. When nodes are removed, the data structure rearranges itself to coalesce or split to remain inside of the specified node range. These characteristics make this data structure ideal for use in secondary storage devices like hard drives. For ten points, identify these types of trees, created by Rudolf Bayer.

Answer: B-Trees

11. He was born as Jay L. Jenkins in South Carolina but was raised outside of Atlanta. An up-and-coming but already prolific rapper he and the other *Boyz N Da Hood* reject the

crunk movement, instead preferring lyrics that are more hardcore and “real.” His first solo album, *Let’s Get It: Thug Motivation 101*, debuted at #2 in July and has already gone platinum. One of his more famous nicknames is “snowman,” referring to his past as a cocaine dealer; he has capitalized on this title, producing a line of famous snowman T-shirts, which he compares to the white tee phenomenon. FTP, identify this rapper whose singles include “And Then What,” and the top 5 hit, “Soul Survivor.”

Answer: Young Jeezy

12. The native language of this transcaucasian nation uses the Khutsuri and Mkhedruli scripts. Its landscape is dominated by mountains, with the Likhi range connecting the Greater and Lesser Caucasus to the north and south. Located on the southeastern corner of the Black Sea, its flag consists of a red cross on a white background, with smaller red crosses in each of the four quadrants. Bordered by Russia to the north, Azerbaijan to the East, and Armenia and Turkey to the South, this is, for ten points, what former Soviet republic, birthplace of Stalin, with capital at Tbilisi?

Answer: Georgia or Sakartvelo

13. After his house burned down, he traveled on foot across the country, a journey which he would document in *The Records of a Weather-Beaten Skeleton*. Much of his finest work comes in the humorous linked verse form, which he elevated to new levels by putting demands on poets to chain verses by things like “perfume,” “echo,” and “harmony” rather than merely puns and word-play. One poem of his concerns the dripping of water from a banana plant, and his name refers to the hut he lived in next to this same banana tree. FTP, name this Japanese author of the poem “Old pond / frog jumps in / water’s sound,” the master of the Haiku.

Answer: Matsuo Basho or Matsuo Munefusa or Matsuo Kinsaku

14. The discovery of the decaying orbit of a binary pulsar provided strong evidence for their existence, resulting in the awarding of the 1993 Nobel Prize in Physics. Ground detectors like LIGO and VIRGO are currently focusing on those expected from neutron stars, and it is hoped that the LISA mission will observe those with wavelengths as long as three billion kilometers, possibly produced by supermassive black holes. For ten points, name these vibrations in space-time whose search is aided by computers worldwide via the Einstein@Home project.

Answer: gravitational waves

15. His reign saw the first courts of law in England established, and he consented to the Assize of Clarendon, which reestablished the custom of trial by jury. However, clashes with church law caused one of this monarch’s greatest controversies. His first son is known as the Young King and not given a cardinal number, since he was never granted real rule. It would be his fourth son, Richard, who eventually succeeded him after years of rebellion supported by this king’s wife. For ten points, name this English monarch who acquired vast territory in Southern France from enemy Louis VII after his marriage to Eleanor of Aquitaine.

Answer: Henry II Plantagenet

16. This proposal was slated to take effect on February 1st of the same year. If neutrality failed, it gave instructions to try to obtain an alliance with the Japanese, but it was ultimately rejected because it was deemed too difficult to deal with the Anglo population in the region to be reclaimed. Nigel de Greg, of the Room 40 naval unit, was responsible for decrypting it, but since the British government feared that its legitimacy may be questioned, an operative in Mexico City was deployed to intercept, for ten points, what telegraph that called for a World War I alliance between Mexico and Germany?

Answer: Zimmerman Telegram or Zimmerman Note

17. First published in 1957, the action takes place by the sea inside a tiny circular building with two high windows. Some suggest that the building represents a human skull and the play represents the dissolution of man's personality when facing death; Harold Bloom sees the aging master as paralleling Hamlet. Only four characters are present in the drama's one act: Nagg and Nell, who live in two ashbins, their blind son Hamm, and Hamm's pawn, Clov. FTP, identify this absurdist work which caused its author, Samuel Beckett, to become upset because there was no adequate English translation for the French *Fin de partie*.

Answer: Endgame (accept Fin de partie early)

18. One of his early articles is "Famine, Affluence, and Morality," in which he states his belief that every person has a moral obligation to donate money to a level of equal marginal utility to the victims of the then-recent famine in East Bengal. He helped found the Great Ape Project, whose goal is to get the United Nations to declare that Great Apes are people, and the most comprehensive collection of his viewpoints is in his book *Practical Ethics*. Although he did not coin the term, he is one of the most active critics of speciesism, discrimination against animals solely due to their species. FTP, name this Australian philosopher, the author of *Animal Liberation*.

Answer: Peter Singer

19. A "chained" version of it was introduced in 1999 to mitigate positive substitution bias and outlet bias, and most analysts concentrate on the "core" version because of the excessive volatility in the food and energy sectors. Data for it is collected by the Bureau of Labor Statistics from 50,000 households and 23,000 retail establishments from around the country, and it affects everything from the interest earned on TIPS, to the break points between tax brackets, to the cost-of-living increases for Social Security recipients. Studied in intro-level Macroeconomics courses with the Laspeyres and Paasche versions, this is, FTP, what index, the best-known measure of inflation at the retail level?

Answer: Consumer Price Index

20. This short musical composition was supposed to be a part of the original Fantasia but was cut because Fantasia was considered too long. The 1905 piano suite of which it is the third part, also includes a prelude, menuet, and passepied, and its title either refers to a folk song that often accompanied the love-sick Pierrot or a Paul Verlaine poem about moonlight. FTP, what is this lyrical piano work, the hallmark of Impressionism in music, and the third movement of the Suite Bergamasque of Claude Debussy?

Answer: Clair de Lune

2 Maryland B + Princeton Bonuses, Round 3

1. For ten points each, answer the following about a living author who was a Mexican diplomat to both London and Paris.

10 Name this man whose 1985 *Gringo Viejo* was the first American bestseller by an author from Mexico.

Answer: Carlos Fuentes Macías

10 This massive Fuentes work heavily utilized Jungian archetypes in what he said was “an attempt to synthesize the voices of James Joyce in *Ulysses* and Alexandre Dumas in *The Count of Monte Cristo*.” It analyzes cultural divisions in the Old and New Worlds in an attempt to understand the author’s heritage.

Answer: Terra Nostra

10 This work portrays a brave soldier who, during the Mexican Revolution, loses both his idealism and the only woman that ever loved him. Identify this work which opens by showing the wealthy titular character on his deathbed.

Answer: The Death of Artemio Cruz or

La muerte de Artemio Cruz

2. Answer these questions about Shinto gods FTPE.

10 This Sun Goddess crunchingly crunched the shards of the ten-fists-length-sword and blew out her children from the resulting crunched stuff.

Answer: Amaterasu

10 Amaterasu performed those actions as a sign of good will to this god, her rowdy brother, who in turn crunchingly crunched her Magatama and blew out his children.

Answer: Susano-o

10 This moon god is the less famous sibling of Amaterasu and Susano-o.

Answer: Tsukiyomi or Tsukuyomi

3. Identify the following about a certain poem in American Literature, for the stated number of points.

10 This poem ends saying that the title character, might not sing so wildly well / A mortal melody / While a bolder note than this might swell / From my lyre within the sky.

Answer: Israfel

10 This author of *The City in the Sea*, *Tamerlane* and *The Light-House* was responsible for writing *Israfel*.

Answer: Edgar Allen Poe

10 While he is never directly mentioned, a passage in the Koran indicates that *Israfel* carries this instrument, which he will play to wake the dead at the end of the world.

Answer: trumpet

4. Identify these things from environmental science, for the stated number of points.

5 This New York town was used as a chemical waste disposal site for the city of Niagra Falls, and became so polluted that Jimmy Carter declared it a disaster area in 1978.

Answer: Love Canal, New York

10 This is the term used for the increase in food production beginning in the 1960s using improved strains of wheat, rice, and other cereals.

Answer: Green Revolution

15 This GMO corn had a gene inserted into it to ward off pests, but was only FDA approved for non-human consumption, causing controversy when it was found in taco shells.

Answer: StarLink corn or Bt corn

5. FTPE, identify these industrial chemical processes.

10 This process, credited to its namesake German chemist, is commonly used to produce nitric acid.

Answer: Ostwald Process

10 The Ostwald process only became useful because of the sudden wide availability of this compound created by the Haber Process.

Answer: ammonia

10 This process converts carbon monoxide and hydrogen into hydrocarbons using a catalyst, usually one based on iron and cobalt.

Answer: Fischer-Tropsch Process

6. Identify the new religious movement given a description, for ten points each.

10 This organization, noted for its belief in mass marriages, was founded by a minister who fled North Korea during the Korean War and whose followers think to be the messiah.

Answer: Unification Church or HSA-UWC (prompt on "Moonies")

10 This group, an offshoot of the Seventh-day Adventist church, owes its popularity to a 1993 attack on its Waco, Texas compound by ATF agents.

Answer: Branch Davidians

10 This new religious movement was formed for the practitioners of the yoga of devotion and focuses its devotion on a specific avatar of Vishnu and his consort, Radha.

Answer: Hare Krishnas or

International Society for Krishna Consciousness

7. A long, long time ago, three Roman legions were destroyed. For ten points each, name these things having to do with the incident.

10 This is the name of the battle where the seventeenth, eighteenth, and nineteenth legions were destroyed by the Germanic tribe, the Cherusci.

Answer: Battle of Teutoburg Forest or Teutoburgerwald

10 When hearing of the defeat, the Emperor Augustus is said to have asked this commander of the legions, who fell on his sword after the defeat, to give him back his legions.

Answer: Publius Quinctillius Varus

10 This was the Romanized Germanic prince, leader of the alliance of German tribes, who ambushed Varus in Teutoburg Forest, annihilating the legions.

Answer: Arminius or Hermann de Cherusker or Irmin

8. Answer the following about an early 20th century Analytical Philosopher.

10 He wrote the best-seller *A History of Western Philosophy* in 1945, but is better known for a namesake paradox about sets containing other sets, which led to his collaborative magnum opus.

Answer: Bertrand Russell

10 Russell's paradox, which asks whether the set of all sets not containing themselves contains itself, was resolved by this complicated theory which he put forth, which allowed for definition of sets only in a strict hierarchy.

Answer: Theory of Types

10 Russell wrote an introduction to this book which he helped get published in English in 1922, although its author was convinced that Russell didn't understand it. Its author thought with it he had solved all the problems of philosophy, causing him to become a primary school teacher.

Answer: Tractatus Logico-Philosophicus

9. For ten points each, identify the following related questions.

10 This play was first produced in 1925 and sets out to demonstrate the limitations of the theatre as a medium of story-telling. Among the titular characters are The Father, The Mother, and The Step-Daughter who interrupt an acting company's rehearsal to find what they are looking for.

Answer: Six Characters in Search of an Author or Sei personaggi in cerca d'autore

10 This man is the author of *Six Characters in Search of an Author*; he was also known for his *Each in his Own Way* and *Right You Are (If You Think You Are)*.

Answer: Luigi Pirandello

10 This Pirandello play has only three characters, and it looks at a man sitting outside a café who has missed his train. He meets a man who is fatally ill, and they converse about the first man's wife, who later appears. The work was notable because it was the first drama to be aired on television, doing so in a BBC test of 30-line technology.

Answer: The Man With the Flower in His Mouth

10. Answer the following about a type of Japanese theater.

10 It traces its history to 1602, and it was wildly popular until the Shogunate clamped down on it, although it re-emerged in the 1800's and remains popular today. It features elaborate makeup and costumes, and since the original crackdown of the shoguns, female roles have traditionally been played by androgynous youths.

Answer: Kabuki

10 Kabuki was created by this woman as a new form of dance performance in Kyoto. She inspired the original erotic style of dance which was of course popular among the male customers.

Answer: Okuni

10 This great writer worked in both the Kabuki and Bunraku theatres. He's probably most famous for the plays *Battles of Coxinga* and *The Love Suicides at Amijima*.

Answer: Chikamatsu Monzaemon

11. Identify these things relating to a certain event in European history, for the stated number of points.

5 It was called in 1814 as a reaction to the changes of Napoleon throughout Europe.

Answer: The Congress of Vienna

10 This Austrian statesman was responsible for organizing the Congress of Vienna.

Answer: Klemens Wenzel von Metternich

5 While not an official part of the Congress, Tsar Alexander I persuaded many of the representatives to agree to this largely ineffective alliance. Pope Pius VII and Sultan Mahmud II were notable exceptions.

Answer: The Holy Alliance

10 This German kingdom was given to the Prussians in exchange for denying many of their claims to Poland, giving them instead to Russia.

Answer: Saxony

12. Answer these questions related to the field of cryptography, FTPE.

10 Named for a French diplomat and cryptographer, this cryptology method uses a repeated key to shift each letter in a code by that letter's position in the alphabet, but is easy to decipher when repeatable words are used.

Answer: Vigenère cipher

10 It took fifty years and cryptanalysis techniques to decipher this ancient written language, first found on a series of clay tablets at Knossos in 1900, a written form of Mycenaean.

Answer: Linear B

10 The Declaration of Independence supposedly contains a key for these documents, which are said to reveal the location of a buried treasure somewhere in Bedford County, Virginia.

Answer: Beale papers or Beale Ciphers

13. Answer the following about a pioneering anthropologist

10 This Polish anthropologist is probably best known for his book *Argonauts of the Western Pacific*.

Answer: Bronislaw Kasper Malinowski

10 Malinowski's *Argonauts of the Western Pacific* concerns inhabitants of these islands and their complicated shell-exchanging rituals.

Answer: Trobriand Islands

10 This is the name for the Trobriand Islander gift system Malinowski studied, in which shell necklaces and armbands are traded around to increase social status.

Answer: Kula or the Kula exchange or the Kula ring

14. Answer the following on a phenomenon in General Relativity, ten points each:

10 This phenomenon, first made famous by Albert Einstein in a 1936 paper, and first observed in the quasar 0957+561, comes in strong, weak, and micro varieties?

Answer: gravitational lensing (prompt on "lensing")

10 When the source, the lensing mass, and the observer are perfectly aligned, the lensed image forms this eponymous pattern.

Answer: Einstein ring

10 Microlensing has been used to constrain the mass of this dark-matter candidate, thought to consist of clumps of roughly Jupiter mass, and which, unlike a similar candidate, do not consist of a new type of particle.

Answer: MACHO or Massive Compact Halo Objects

15. Answer the following about a certain mathematician, FTPE.

10 His work in tracking the planetoid Ceres was eventually published in his *Theory of Celestial Movement*, where his namesake gravitation constant was first set forth.

Answer: Carl Friedrich Gauss

10 A 1799 dissertation by Gauss proved this theorem, which states that every complex polynomial of degree n has exactly n roots.

Answer: Fundamental Theorem of Algebra

10 Gauss was so thrilled with his rediscovery of a method to make these many-sided regular polygons using only a ruler and a compass that he requested one on his tombstone.

Answer: heptadecagon (prompt on "17-sided polygons" or anything like that)

16. Identify the Thomas Pynchon novel from clues, TPE.

10 Lieutenant Slothrop's amorous adventures draw a perfect map of the bombs falling on London. "It's just a Poisson distribution," protests Roger Mexico.

Answer: Gravity's Rainbow

- 10 A large portion of it consists of *The Courier's Tragedy*, an imaginary Jacobian revenge play which, like *The Mousetrap* in *Hamlet*, mirrors the larger story it is part of. Oedipa Maas unravels a postal conspiracy to learn that the title object is a stamp collection.

Answer: The Crying of Lot 49

- 10 This Pynchon novel considers hippies living in Boonville, California, and Muucho Maas makes a cameo. Female ninjas figure prominently.

Answer: Vineland

17. Identify these things about a Mesopotamian king, for ten points each.

- 10 This king is the third king in recorded history to have created an empire. He, like Moses, was said to have been found in a basket floating on a river.

Answer: Sargon the Great or Sargon of Akkad or Sharru-kin

- 10 This city was the capital of Sargons empire and gave its name to a Semitic language.

Answer: Akkad or Agade

- 10 This city in southern Mesopotamia, home of the Great Ziggurat and, allegedly, to Abraham, was conquered by Sargon during his empire building campaign.

Answer: Ur

18. Identify these people associated with a 1925 court case, for the stated number of points.

- 5 This Tennessee substitute teacher was charged with illegally teaching evolution and was fined one hundred dollars at the conclusion of his "monkey trial."

Answer: John Thomas Scopes

- 5 This three-time Democratic candidate for the presidency led the prosecution team for the Scopes trial. He is perhaps best known for his 1896 "Cross of Gold" speech in opposition to the gold standard.

Answer: William Jennings Bryan

- 10 Many have compared the ongoing court case over Intelligent Design in this location to the Scopes case.

Answer: Dover, Pennsylvania

- 10 This 1925 Tennessee law forbade state-supported schools from teaching human evolution or any theory that denied Creationism as described in *Genesis*. It was upheld as constitutional upon the appeal of the Scopes case and was not repealed until 1967.

Answer: Butler Act

19. Answer some questions about important contributors to cooperative game theory for ten points each.

- 10 In 1951, he introduced his namesake bargaining solution for coalition games which is still used extensively in economics. He is more famous for the equilibrium concept he introduced one year earlier.

Answer: John Forbes Nash

10 A fellow student of Nash at Princeton, he introduced the “core” and his namesake “value” as an approach to divide up the surplus obtained by the cooperation of more than two players. Computer scientists know him better for co-authoring a stable matching algorithm with Gale.

***Answer:* Lloyd Stowell Shapley**

10 The co-winner of the 2005 Nobel Prize with Robert Aumann, this economist introduced his namesake “focal point” and applied cooperative game theory to geopolitics and arms control.

***Answer:* Thomas Crombie Schelling**

20. Given an opera, name the composer for ten points each.

10 Amahl and the Night Visitors

***Answer:* Carlo Menotti**

10 Akhenaton

***Answer:* Philip Glass**

10 Nixon in China

***Answer:* John Adams**