

PARFAIT III Round 6

Berkeley

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1 Berkeley Tossups, Round 6

1. His autobiographical string quartet *From My Life* contains a piercing high E note, which may have represented his frustrations with tinnitus at the onset of his deafness. However, he is more famous for his opera scenes based on themes and myths from his home country of Czechoslovakia, becoming a strong influence on fellow countryman Antonin Dvorak. For ten points, identify this composer of *Màà Vlast*, a cycle of six symphonic poems, as well as his most successful opera, *The Bartered Bride*.

Answer: Bedrich Smetana

2. He considered himself an artist rather than a writer, even studying art in his youth with Auguste Rodin. However, he is far better known for his writings, one of which, "The New Frontier," gave inspiration to John F. Kennedy with the line "Are you a politician asking what your country can do for you or a zealous one asking what you can do for your country? If you are the first, then you are a parasite; if the second, then you are an oasis in a desert." He remarks that "half of what I say is meaningless," in his poem "Sand and Foam". For ten points, name that most famous of Lebanese-American authors, whose 1923 work *The Prophet* soared in popularity with the 1960s New Age movement.

Answer: (Gibran) Kahlil Gibran

3. He published *Advice to the Tories Who Have Taken the Oaths* during the Jacobite rebellion, and rejected Newton's absolutism six years later in *De Motu*. Though he came later than Leibniz and Newton, he too feuded over the calculus, with mathematicians James Walton and James Jurin, whom he satirized in 1735's *A Defence of Free-Thinking in Mathematics*, when Jurin responded to his critique of calculus, *The Analyst*. His *Treatise Concerning the Principles of Human Knowledge* espoused his doctrine of "immaterialism." For ten points, name this Irish empiricist philosopher and bishop, author of *Three Dialogues between Hylas Philonous*.

Answer: George Berkeley (pron. "Barkley")

4. Violations of it were observed by Sherril, Mayer, and Walter, who disagreed with Kharasch's explanation of the peroxide effect. First discussed in an addendum to a 26-page article in 1870 using the examples of the addition of HI to propylene, isobutylene, and butylene, the addition of HI to vinyl bromide, and the addition of HI to gechlortes proylen, it states that in the addition of a hydrogen halide to an alkene, the hydrogen atom attaches to the carbon with the greater number of hydrogens while the halide atom attaches to the carbon with the lesser amount of hydrogens, for ten points, name this law named after a Russian chemist.

Answer: Markovnikov's Rule

5. The central figure in this painting, a man wearing a red sash, extends his left hand toward the viewer. Near the back, Jan Visscher Cornelisen serves as a flag bearer. Left of center is a woman clad in gold, with a chicken attached to her belt, emblematic of the group she accompanies. To the viewer's right of the flag bearer is a self-portrait of the artist, one of his more than seventy-five self-portraits. This painting, so identified with Holland, was the victim of a disgruntled sailor who slashed the painting in an effort to take revenge on

the country itself. For ten points, identify this work which depicts a militia company led by Captain Banning Cocq, a Rembrandt van Rijn work.

Answer: The Night Watch

(also accept: Militia Company of Captain Frans Banning Cocq)

6. Walter Moody said that it would receive “civilization,” “convenience,” “health,” and “beauty” if a 1909 document prepared by Daniel Burnham was accepted by mayor Fred Busse. A later mayor, Anton Cermak, was killed by an assassin’s bullet meant for FDR, and other men killed here include Frank Gusenberg, John May, and Dr. Reinhardt H. Schwimmer, who were associated the the Moran gang and were killed on February 14 1919 in the St. Valentine’s day massacre. For ten points, name this city described in the early twentieth century by a resident as the “city of big shoulders,” the largest city in Illinois.

Answer: Chicago

7. Many formations of its eastern side were likely caused by the impact of a Oudemans crater just south of it; also nearby is the Noctis Labyrinthus region. At its western end sits the Tharsis region whose volcanic activity helped create it. It was probably initially created by rift faults, and later made larger by erosion, but this erosion was almost certainly not from liquid water, due to the extremely low pressure and low temperature present. For ten points, name this vast canyon system, more than 5 times as long and 6 times as wide as the Grand Canyon, a scar on the face of Mars.

Answer: Valles Marineris

8. All that’s in the room with it is a dead blue-bottle on the window-sill, and it is only used by more than one person when the protagonists are attempting to evade Mrs. Macready and a gaggle of sightseers. After it is used for the first time, an individual who wishes he had studied geography so he’d know where Spare Oom is asks Lucy to tea, which eventually gets him turned to stone by Jadis, the White Witch. For ten points, name this object that Lucy, Edmund, Peter and Susan use to reach Aslan’s realm of Narnia thus meeting a Lion and a Witch.

Answer: The Lion, the Witch, and the Wardrobe

9. Among this group, Krzysztof Kosinski led a 16th century uprising which was eventually joined by folk hero Severyn Nalyvaiko, another member of this group. Their most famous military leader, or *hetman*, was a Zaporozhian named Bohdan Khmelnytsky, who in the 17th century tried to make them an independent state in Poland. Though often rebelling themselves, they were also frequently used by Russian governments to suppress uprisings. Also the subject of a series of novels set on the Don River by Mikhail Sholokhov, for ten points, name this historically militaristic people of Eastern Europe and Asia.

Answer: Cossacks

10. He wrote *Giraffes on Horseback Salads*, a script for a Marx Brothers movie that was never produced. He painted himself as a kneeling monk in a painting that also contains his wife depicted on a banner in the hand of the title figure stepping ashore next to a sea urchin in his *The Discovery of America by Christopher Columbus*. Animals on stilts feature prominently in both his *Temptation of St. Anthony* and *Dream Caused by the*

Flight of a Bee around a Pomegranate a Second Before Awakening, and this surrealist also collaborated with Hitchcock on the dream sequence of *Spellbound*. For ten points, name this Spanish painter of *Persistence of memory*.

Answer: Salvador Dalí

11. This pathway of carbon fixation was discovered by two Australian researchers and thus is occasionally referred to as the Hatch-Slack pathway. Its distinctive characteristic relies on Kranz anatomy, a unique configuration that physically separates carbon dioxide fixation from the Calvin cycle in order to overcome the tendency of the rubisco enzyme to waste energy through photorespiration. For ten points, name this pathway in which carbon is fixed in mesophyll cells before being carried to Calvin-cycle enzymes in bundle-sheath cells.

Answer: C4 carbon fixation

12. One named Volund fell in love with a Valkyrie named Hervor and created a set of artificial wings to get to her. In voodoo, Ogoun Feraille is their loa. One named Dunstan supposedly trapped the Devil and beat him silly. In the Kalavela, one named Illmarinen created the Sampo. In a Kurdish legend, one named Kavah killed the evil king Zohak with a hammer. Setanta received his new name from one named Cullan. Visvakarma fills this role for the Hindu gods. Weyland created the sword Gram for the Sigmund. For ten points, what profession do all these figures have in common, one they share with the Cyclopes and Hephaestus?

Answer: Blacksmith (accept equivalents)

13. He got a supply train into Gradisca by raising troops from his estates obtained by marrying the widow Landeka and thus came to the attention of the archduke of Carniola and Styria during the Friuli wars. Later in life, troops under Butler, Leslie, and Gordon surrounded him at Eger, where he was killed by Walter Devereux. With Pappenheim, he lost the 1632 battle of Lützen, which encouraged Ferdinand II to sack this general. For ten points, name this military leader, named Admiral of the Baltic and Oceanic Seas by Ferdinand II, later defeated by Gustavus Adolphus and murdered shortly thereafter.

Answer: Albrecht von Wallenstein

14. Early suspicions surrounding Mrs. Barrymores nightly sobbing and Mr. Barrymores candle signals are explained away by their family connection to the fugitive murderer Selden, who later meets a gruesome death intended for someone else. The discovery of a mostly-burned letter from Laura Lyons asking for a late evening rendezvous in the Yew Alley, an old family portraits startling resemblance to the naturalist Stapleton, as well as the theft of an old boot of Sir Henry, eventually lead to the arrival of Inspector Lestrade to the Devonshire moor and the shooting of a phantom creature to save the last member of the title family. For ten points, Sherlock Holmes discovers that a huge bloodhound-mastiff covered with phosphorus is actually the titular animal in what 1901 novel of Arthur Conan Doyle?

Answer: The Hound of the Baskervilles

15. A John Gardner novel describes his daughter's attempt to conquer the world using mind-controlling ice cream. His projects were slightly more realistic, such as his plan to wage

germ warfare using hypnotized women. But it was his simplest plan that was his undoing: building a mansion in Japan for the express purpose of letting depressed Japanese youth commit seppuku. This attracted the attention of “Tiger” Tanaka, who alerted his long-time nemesis. For ten points, name this criminal mastermind and founder of SPECTRE, who was finally strangled to death by James Bond in that house.

Answer: Ernst Stavro Blofeld

16. For a compact closed manifold, the Gauss-Bonnet theorem tells that the integral of this quantity over the surface is equal to 2π times the Euler characteristic of the manifold. The Frenet formulas use a 3 by 3 matrix whose nonzero entries are either the torsion or this quantity. These derived from the extrinsic view of this quantity, while the Gaussian type is an intrinsic description, meaning that it can be measured by inhabitants of the surface of the manifold. For a circle of radius R , it is equal to $1/R$ everywhere. For ten points, what is this quantity, a measurement of the non-flatness of a surface?

Answer: curvature (accept Gaussian curvature on the first sentence)

17. Sources differ as to his first name. Alan Moore called him “Hawley”, though the film adaptation went with Jack. He reveals his last name only when recounting the tale of the catastrophic research that led to his isolation from humanity. At the close of his story, it becomes clear that he was driven mad by his predicament, as he plans to use it to take over the world. For ten points, name this tragic figure, known only as Griffin, the title character of an H.G. Wells novel.

Answer: The Invisible Man

18. Upon his retirement, he retired to what is now the city of Split, where he spent his time growing cabbages. Earlier in his life, after adventures in the Sassanid Empire, he had defeated Carinus at the battle of the Margus River, allowing him to consolidate his power. Economic reforms of his reign included ending hyperinflation by minting the argentous, a pure silver coin, while his edict on maximum prices was a dismal failure. His rule also saw the last persecution of the Christians, but Chlorus declined to participate, sparing those of Britain and Gaul. For ten points, name this Roman emperor from 284 to 305 who ended the crisis of the third century and ruled with Maximian, in the Tetrarchy system of government he created.

Answer: Diocletian

19. Its caves became symbolic of the Andean *ucu pacha* or underworld, or the hell promised by the missionaries. The patio process used to extract the ore in this place was so vile that many indigenous workers died of mercury poisoning within months of beginning work and in August 1993, two Quechua miners were killed in a rock fall while trying to scrape up the low-grade tin deposits that are all the wealth that remains at this location. First mined by Wayna Quapaq 28 years before the arrival of the Spaniards, it was known as Sumaj Orcko to the Inkas and renamed Cerro Rico by the Spaniards. For ten points, name this Bolivian silver-mining site which Miguel de Cervantes turned into a popular Spanish phrase in *Don Quixote*.

Answer: Potosi

20. The supposed “flying saucer” debris at Roswell was actually the remains of an attempt to utilize this phenomenon to detect Soviet bomb tests, which was kept a secret for obvious reasons. During World War II, the Navy used this to detect enemy submarines and allow stranded sailors to call for help without alerting the enemy using devices. SOFAR spheres utilize, for ten points, what phenomenon discovered by William Ewing, whereby at a certain altitude or depth sound waves spread out in a circle rather than in all directions?

***Answer:* Sound channel**

21. Written in the late 15th century, it was used as a legal casebook for over three hundred years, rivaling even the Bible in notoriety. James Sprenger and Henry Kramer submitted it to the University of Cologne in 1487 and it quickly became the definitive work on the subject. Margaret Murray used it as evidence of a coherent pagan tradition in Europe, long after the triumph of Christianity. It takes the form of a learned treatise, using numerous citations from ancient and medieval authors to form a single theory of its subjects, their motives, and methods of detection. For ten points, name this religious work, the most thorough and influential book ever on the subject of witchcraft.

***Answer:* Malleus Maleficarum (Accept The Hammer of Witches)**

2 Berkeley Bonuses, Round 6

1. Identify these built-in Java exceptions, for ten points each.
 - 10 The exception thrown during an attempt to access a character at a point greater than the size of the string.
Answer: String Index Out Of Bounds Exception
 - 10 The exception thrown during an attempt to divide by zero.
Answer: Arithmetic Exception
 - 10 The exception thrown during an attempt to call an instance method of the null object.
Answer: Null Pointer Exception
2. Name the Joseph Conrad work based on these (very) brief synopses, for ten points each.
 - 10 In this work the first mate of the *S.S. Patna* abandons his sinking vessel, is court-martialed for dereliction of duty and finally finds appreciation from the people of Patusan.
Answer: Lord Jim
 - 10 Marlow narrates his first tale: that of his first sea voyage to the East at age 20, as the second mate of the ship *Judea*, which catches fire and then sinks.
Answer: Youth
 - 10 Señor Gould gets the title character to hid his lucre from the warlords fighting for supremacy in Costaguana.
Answer: Nostramo
3. Identify the following regarding the capital city of the Abbasid empire, for ten points each.
 - 10 Name that city.
Answer: Baghdad
 - 10 Baghdad enjoyed its “golden age” as a hub of culture, art, and education under the reign of this fifth Abbasid caliph.
Answer: Harun al-Rashid
 - 10 Baghdad was devastated in 1258 by the invasion under this commander, who would become the first khan of the Persian Ilkhanate.
Answer: Hulagu Khan
4. Identify the following about some tempting females in the Old Testament for ten points each.

10 This lithe young girl was accosted by two old man who threatened to get her executed for meeting a lover if she didn't sleep with them both. Daniel saved her, and her story is featured in Wallace Stevens's "Peter Quince at the Clavier".

Answer: Susanna

10 Ethbaal's daughter, she had the worship of Baal-Melkart introduced by her husband Ahab.

Answer: Jezebel

10 In the book of Judges, this woman is enticed by the Phillistines with eleven hundred pieces of silver per Phillistine in order to betray her husband.

Answer: Delilah

5. Name some kings who had funny nicknames for ten points each.

10 The hirsute father of Canute the Great and son of Harald Bluetooth ruled both Denmark and England.

Answer: Sven Tveskägg or Sven Forkbeard or Sven I

10 "Nasr Ud-din Muhammed" was a bit of a mouthful, so this first Mughal emperor's family called him a name meaning "beaver," NOT "elephant".

Answer: Babur

10 The last Carolingian monarch, he got the nickname "the do-nothing" because he didn't have much time to do anything between taking the crown in 979 until his death at the age of twenty shortly thereafter.

Answer: Louis V, prompt on "Louis the do nothing" or "Louis le Fainant"

6. Identify these Asian deserts from clues, for ten points each.

10 This huge sand desert in the southern Arabian peninsula is one of the hottest places on Earth and contains large reservoirs of oil.

Answer: Rub al Khali or Empty Quarter

10 Much of the Indian state of Rajasthan as well as several Eastern provinces of Pakistan are dominated by this desert.

Answer: Thar-Cholistan desert

10 This triangle-shaped desert occupies about half of the country in which its located. Beersheba is located near its northern border while Eilat is at its southern vertex.

Answer: Negev desert

7. No matter how hard the gods try to end the world, some pesky humans always survive to mess things up again. Name some who did, for the stated number of points.

5,5 For five each, this Greek couple had to throw stones over their shoulders to restart humanity.

Answer: Deucalion and Pyrrah

[10] In the myth of this people, Viracocha destroyed all humans save Manco Capac and Mama Ocllo, who survived by sealing themselves in caves.

Answer: Inca

[10] Lif and Lifthrasir are two humans who will survive this conflict between the Aesir and the giants.

Answer: Ragnarok

8. Answer these questions about artists and the monarchs that they painted, for ten points each.

10 Hyacinthe Rigaud painted this monarch in 1701 wearing an elaborate costume of ermine and blue velvet, gold, and high-heeled shoes.

Answer: Louis XIV

10 Diego Velázquez featured himself painting a portrait of this king in Las Meninas in 1656, to whom he began serving as a court painter early in his career.

Answer: Philip IV

10 In one of her several paintings of this monarch, Élisabeth Vigée-Lebrun featured this queen with three children, with one child pulling aside a cover of an empty crib to denote the death of one of her children.

Answer: Marie Antoinette or Maria Antonia Josefa Johanna von Habsburg-Lothringen

9. The only thing better than a sports bonus is a sports literature bonus. Answer some questions about baseball novels, for ten points each.

10 The most famous work by this Canadian novelist is *Shoeless Joe*, which you might remember as *Field of Dreams*.

Answer: William Patrick Kinsella

10 Charlie Brown once hit a home run off the great-granddaughter of this fictional player, the protagonist of *The Natural*.

Answer: Roy Hobbs

10 But there is no joy in Mudville because of the hubris of this character from an Ernest Thayer work.

Answer: Casey at the Bat

10. It's main character whose name literally means "precious jade" is a reincarnation of a piece of stone used to repair the sky. For ten points each. . .

10 Name this work about Jia Baoyu.

Answer: Dream of the Red Chamber or Story of the Stone or Dream of Red Mansions or Honglou Meng

10 Authorship of *The Dream of the Red Chamber* is usually attributed to this eighteenth century novelist.

Answer: Cao Xueqin or Ts'ao Hsueh-ch'in

- 10 Cao Xueqin wrote *The Dream of the Red Chamber* during this Chinese dynasty.
Answer: Qing or Manchu
11. Did you sing dirges in the dark the day the music died? Given a lyric from “American Pie” and a possible interpretation, name the musician to whom it refers for ten points each.
- 10 “Jack Flash sat on a candlestick” probably refers to this band fronted by Mick Jagger that performed the song “Jumping Jack Flash.”
Answer: The Rolling Stones
- 10 “I met a girl who sang the blues” could perhaps refer to Joni Mitchell or this former lead singer of Big Brother and the Holding Company who died of a drug overdose in 1970.
Answer: Janis Joplin
- 10 “Eight miles high and falling fast” probably refers to the song “Eight Miles High” from *Fifth Dimension* by this band.
Answer: The Byrds
12. Even when they’re dead, historical figures keep having words put in their mouths. Name some plays in which this occurs, for ten points each.
- 10 In this Michael Frayn play, the ghosts of Niels Bohr and Werner Heisenberg meet again in the title location to debate World War II, ethics, and atoms.
Answer: Copenhagen
- 10 In this Steve Martin comedy, Elvis Presley and Albert Einstein meet the title figure in Paris.
Answer: Picasso at the Lapin Agile
- 10 Another comedy, this one revised from Aristophanes’ original, finds Shakespeare and George Bernard Shaw vying for the chance to accompany Dionysus back to Earth from Hades.
Answer: The Frogs
13. For ten points each, name these works of Molière.
- 10 Henriette and Clitandre are in love, but the title group in Henriette’s family instead wants her to marry Trissotin, a bad poet.
Answer: The Learned Ladies or Les Femmes savantes
- 10 This ballet with an oxymoronic title tells the story of Monsieur Jourdain’s foolish attempts to rise above his middle class background.
Answer: The Bourgeois Gentleman or Le Bourgeois Gentilhomme
- 10 In this comedy, the title character has taken over the affairs of Orgon by pretending to be a religious man. The King saves the day in the end though.
Answer: Tartuffe

14. Answer some questions about a defunct scientific theory, for ten points each.
- 10 This theoretical substance was once believed to be what made things flammable. Burning a material would remove it, leaving the pure material in ash form.
Answer: phlogiston
- 10 This chemist finally debunked the phlogiston theory, and stated the first law of conservation of mass, but it didn't save him from the French Revolution.
Answer: Antoine Lavoisier
- 10 Even after Lavoisier's refutation of the phlogiston theory, this other famous chemist defended it to the end of his days. Perhaps he was mad that Lavoisier recognized oxygen, when he had called it "dephlogisticated air".
Answer: Joseph Priestley
15. Holy Roman Empire, Batman! Name some prominent states from the entity that was neither holy, Roman, nor an empire, for ten points each.
- 10 Known as "The Free County", this state gained its greatest prominence under the Valois line of dukes. It was a defeat at the hands of this state that led to Joan of Arc being shipped off to the English.
Answer: Burgundy
- 10 This region was ruled for most of its existence by the Guelph and Wittelsbach families. It led the Catholic side in the Thirty Year's War.
Answer: Bavaria
- 10 This duchy at one point owned both Nice and Geneva, but later focused more on the Piedmont. Its buffer position between France and Spain led to its participation in many wars before being incorporated into modern France and Italy.
Answer: Savoy
16. For ten points each, identify the major type of organic compound produced in the following reactions under the given conditions.
- 10 A Grignard reagent placed in water
Answer: alkane
- 10 A primary alcohol placed in acid, sodium dichromate and water
Answer: carboxylic acid
- 10 An alkoxide and an alkyl halide placed in dimethyl sulfide
Answer: ether
17. Answer the following about the inspiration for Lewis Carroll's characters for ten points each.
- A daughter of the Dean of Carroll's college was the model for the protagonist of this story, originally titled *Under Ground*.
Answer: Alice's Adventures in Wonderland

- 10 This character represented Lewis Carroll, who also stuttered, and awarded Alice a thimble.
Answer: Dodo
- 10 This character, who asks Alice how a raven is like a writing desk, was probably inspired by Theophilus Carter, an eccentric man from Oxford.
Answer: The Mad Hatter
18. They are unique, indestructible, and don't interact with each other. But they can't be observed, so the theory can't be falsified. For ten points each. . .
- 10 Name these bodies whose name Pythagoreans used as the name of the beginning number of a series.
Answer: monads
- 10 The foremost proponent of monads was this German who also invented calculus.
Answer: Gottfried Wilhelm Leibniz
- 10 Burned at the stake, this Italian laid the groundwork by dividing monads into God, souls, and atoms in his *On the Monad, Number, and Figure*.
Answer: Giordano (Filippo) Bruno
19. Identify these results from modular arithmetic for ten points each.
- 10 This theorem, a special case of Euler's theorem, states that for a prime p , a to the power p is congruent to a modulo p .
Answer: Fermat's little theorem
- 10 This ethnically-named theorem can be used to find integer solutions to series of congruences with different moduli.
Answer: Chinese Remainder Theorem
- 10 Gauss' "Theorem Aureum" is this theorem, which, for two prime numbers p and q , tells the relation of p being a square modulo q to q being a square modulo p .
Answer: quadratic reciprocity or QR
20. Release your inner barbarian and answer some questions about historical weaponry, for ten points each.
- 10 Not to be confused with a catapult, this siege weapon was capable of hurling large objects hundreds of feet, and in and out of warring cities.
Answer: Trebuchet
- 10 The Romans briefly used this enormous weapon to disable and board enemy ships in naval battles, though its sheer size made ships top-heavy and capsize-prone.
Answer: Raven
- 10 To gain an edge over mounted knights, foot soldiers would scatter these spiked balls on the ground to disable approaching horses.
Answer: Caltrops

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