

PARFAIT II Round 8

Princeton and University of Miami
Jay Sridhar and Princeton

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1 Princeton and University of Miami Tossups, Round 8

1. Her father was a German-born Jew, and knowing that Henry Ford was an anti-Semite, she asked him at a dinner party whether he was Jewish. In Detroit, she also suffered a miscarriage, an event depicted in her painting *Henry Ford Hospital* which shows her lying bleeding on a bed with two strange objects and a baby floating above it. While visiting the Blue House in 1938, Andre Breton was fascinated by works such as *What the Water Gave Me* and set up exhibitions for her in New York and Paris. She produced increasingly personal paintings such as *The Little Deer*, *Me and My Parrots*, and *Self-Portrait Dedicated to Leon Trotsky* while growing increasingly ill from a trolley accident in Mexico City two decades earlier. For ten points, name this artist of *Self-Portrait with a Monkey*, the wife of Diego Rivera.

Answer: Frida Kahlo

2. In one story he is cursed by a jilted Apsara to be impotent, although she changes her curse after he pleads for mercy. Thanks to Urvashi's altered curse, he is forced to spend the last year of his exile as a eunuch teaching dancing and singing to Virata's daughters. Well-known for being ambidextrous, in another episode he helps the fire god Agni devour a forest and recover from a stomach-ache by preventing rain, defying his father Indra. Showing a lack of honor, he also kills his half-brother Karna, acting on the advice of his more famous cousin. For ten points, name this Hindu hero of the "Mahabharata" whose charioteer is Krishna.

Answer: Arjuna

3. One of this company's products checks for `fboot.nb0`, which replaces the machine's flash memory. If a file called `explorer.glb` is present, it boots into Windows CE. Although it uses encryption, the DES key F2654hD4 is hard-coded (a very bad idea indeed!) in AccuTouch and AVTSCE and has been in use since 1998, as reported by Kohno, Stubblefield, Rubin, and Wallach of Johns Hopkins. A recent paper by Feldman, Halderman, and Felten demonstrated that a RAM resident program could not only change the internal state of the machine but also virally spread on the flash memory used to record results to other machines, a risk allegedly unknown to Republican booster and CEO Walden O'Dell. In use in all of Maryland, urban areas of Ohio, and parts of California, its AccuVote system is the most widespread voting machine in use. For ten points, name this corporation best known for making ATMs.

Answer: Diebold Election Systems, a part of Diebold, Incorporated

4. George Stephenson's first locomotive, designed in 1814, was named in honor of this man, who had made his first visit to England in that year. Promoted to major-general after his 1794 victory at Landau, he went on to serve as the military governor of Munster and was later nicknamed "Marshal Forward" for his aggressive tactics. Captured at Ratkau shortly after the battle of Auerstadt, he was defeated again nine years later at Ligny, where he almost died after falling off his horse. Two days later, a strenuous march allowed his army to join the famous battle which ended the Hundred Days. For ten points, what Prussian Field Marshal's arrival helped Wellington defeat Napoleon at Waterloo.

Answer: Gebhard Leberecht von Blücher

5. Alyoshka, a minor character, lies on the streets singing and playing his concertina, much to the consternation of the police chief affectionately called Abramka. Abramka wishes to marry the meat-vendor Kvashnya, but she refuses because of her experience as the wife of an abusive husband. The main plot centers on Pepel, who dumps Abramka's niece Vassilisa in favor of her sister Natasha. Pepel hopes to leave with Natasha for Siberia, as the old tramp Luka tells him that there is gold to be found there. Unfortunately, Pepel accidentally murders the landlord Kostilyoff. For ten points, name this play, subtitled "Scenes from Russian Life", perhaps the best-known work of Maxim Gorky.

Answer: The Lower Depths or At the Bottom or Na dne

6. He applied the more general term "practical intelligence" to the "practical" permanencies like the breast in his later work *The Grasp of Consciousness*. One of his subjects defined a "daddy" as someone with lots of little Luciennes and Jacquelines, the names of his children. In addition to egocentrism, subjects given seven candies then one more perceive getting more than when given four then four in the his preoperational stage, but have moved well beyond difficulties with object permanence in the sensorimotor stage. For ten points each, name this Swiss developmental psychologist who created a model of mental development in children.

Answer: Jean Piaget

7. According to his younger brother, "he has no ambition and no energy . . . [he] would rather be considered wrong than take the trouble to prove himself right." Instead, he prefers lazing about the Diogenes Club, though during the matter of the Bruce-Partington Plans we are informed that "occasionally he *is* the British government. . .the most indispensable man in the country." In "The Greek Interpreter", he schools his brother at his own game by noting that an old soldier must have multiple children from the variety of presents he is carrying. For ten points, who is this smarter but incurably indolent brother of Sherlock Holmes?

Answer: Mycroft Holmes (prompt on partial answer)

8. He earns the position of bailiff, and his closest ally is Grimbard, who warns him of a plot against him. He blinds the children of Isegrim, and gets Tybalt to go after mice and get caught in the son – ahem – nephew of a priest's noose. He gets Kyward and Bellin to go on a pilgrimage with him; he eats the former, a hare, and gives the head to the later, a ram, to give to Noble, the king of the beasts, who sentenced him to death but was taken in by his crafty lies. The subject of Göthe's *Reinecke Fuchs* and appearing in *The Nun's Priest's Tale*, for ten points, name this deceitful fox, the subject of an early medieval fable/allegory.

Answer: Reynard the Fox

9. Its four cardinal virtues were Dikaiosyne, Sophrosyne, Sophia, and Andreia. It taught a brotherhood of all humans and that rank and wealth were immaterial; this went as far as preaching that slaves were equally human as their masters. Influential followers included Cato the Younger, Epictetus, and Seneca. Contentment was possible by achieving reason, logic, fortitude, and self-control. Carried on by Chrysippus, for ten points name this school of philosophy founded by Zeno of Citium.

Answer: Stoic

10. The last of them was most famous for an article attacking the opera about an education minister who was “Dismissed from Office,” which was an allegory for the defense minister who was sacked in 1959. The most famous of them herself worked on operas such as *At the Port* and *The Red Detachment of Women*, the latter of which was one of the “eight model plays,” the only permitted operas or ballets allowed to be performed in China during 1966-1976. Consisting of the aforementioned Yao₂ Wen₂yuan₂, Jiang₁ Qing₁, Zhang₁ Chun₁qiao₂, and Wang₂ Hong₂wen₂, for ten points, name this quartet of communists who directed the cultural revolution in China until Mao’s death in 1976.

Answer: Gang of Four or Si ren bang

11. He ran for the presidency in 1844 with Sidney Rigdon as his running mate, but died before the election. Also that year, he organized the council of the fifty, which promulgated its edicts through the General Conference. After he and his brother Hyrum were killed in Carthage, a group of followers of this man who made an archeological discovery in the hill Cummorah moved to Independence, Missouri under the leadership of his twelve-year-old son while the bulk of the residents of Nauvoo followed Brigham Young to Utah. For ten points, name this first president and prophet of the Church of Jesus Christ of Latter Day Saints.

Answer: Joseph Smith Jr.

12. The narrator was impressed more by the simple phrase “Thank You” than by St. Paul’s or Westminster Abbey, and decided to leave his millionaire guide in Berlin. He confesses his love while playing the Thirteenth Nocturne, but the object of his affections flees for New Hampshire after he felt hew was growing “black and thick-featured and crimp-haired.” Written while the author was U.S. Consul to Nicaragua, for ten points, name this work by the author of *Fifty Years and Other Poems* and *God’s Trombones*, a fictionalization of a black man’s life by James Weldon Johnson.

Answer: The Autobiography of an Ex-Coloured Man

13. An apprentice of Peterzano, he later worked for Giuseppe Cesari in Rome, painting such images as “Boy Peeling a Fruit” and “Young Sick Bacchus.” He is better known for the style he demonstrates in images such as “Penitent Magdalene” and “Rest on the Flight to Egypt.” A controversial figure, his “Madonna of Loreto” was thought to have been modeled from a dead prostitute. He also painted morbid scenes such as his “Beheading of St. John the Baptist” and “David with the Head of Goliath,” both of which feature his characteristic dramatic contrast in lighting. For ten points, name this Mannerist notorious for his personal escapades and praised for his chiaroscuro techniques, best demonstrated in “The Calling of St. Matthew.”

Answer: Michelangelo Merisi da Caravaggio

14. In rare cases it takes place very quickly due to neighboring group participation. This reaction occurs more often in solvents like water and alcohol, as they are polar and protic. The Hammond-Leffler postulate states that inductive stabilization and hyperconjugation between alkyl groups will increase the rate of this type of reaction. Racemization of the product will occur because nucleophilic attack on the carbocation can occur from either side of the plane. For ten points, name this mechanism whose rate depends only on the

concentration of one reactant, the partner of the SN2 reaction.

Answer: SN1 reaction

15. One of his namesake theorems states that, in classical mechanics, Hamiltonian flows preserves volume in phase-space. The function in number theory that is named after him takes any positive integer to negative one raised to the power of the number of prime factors of the integer. Another of his theorems gives the result in complex analysis that every bounded entire function must be constant. For ten points, name this French mathematician who proved the existence of transcendental numbers by construction via continued fractions but who did not open the Hillerich & Bradsby bat factory in Kentucky.

Answer: Joseph Liouville

16. Comptotheclin, a plant alkaloid with strong antitumor activity, inhibits its activity and it is the target of quinolone antibiotics like its bacterial cousin, DNA gyrase. Sharing a RING binding protein with p53, this enzyme can function at anaphase but not metaphase because it is not upregulated by MPF in order to decatenate sister chromatids so that replicated DNA sequences can be separated. For ten points, name this enzyme that reduces the conformational complexity of DNA sequences and turns them into less convoluted topoisomers.

Answer: topoisomerase (accept “topoisomerase II,” but not “topoisomerase I”)

17. *Ijma* is accepted by most scholars as an infallible source for it, as God said that his people can never agree and be wrong. When this is applied in practice, *qiyas*, or reasoning by analogy, is often used by the *mujtahidun* to argue on a particular issue. Divided into two categories, the first concerns itself with *wudu*, *salah*, and other related topics, while the second covers more everyday matters such as laws of inheritance and food and drink. With its main sources coming from the sunnah and the Qur’an, this is, for ten points, what body of Islamic law?

Answer: Sharia

18. In the aftermath of this event, the governor of Oregon tried to use a legal technicality to replace Republican John Watts with a Democrat. James Wells, the head of Louisiana’s returning board, inquired about selling electoral votes for \$1 million a piece but was rebuffed by both parties, and final conditions for its resolution were agreed to at the Wormley House which ended a filibuster blocking a final vote count. It was resolved after David Davis was elected by the Illinois state legislature to the U.S. Senate and had to be replaced by Justice Joseph Bradley who joined the other seven Republicans on the Electoral Commission in awarding victory to an Ohio Republican and his running mate William Wheeler. For ten points, what presidential election saw Samuel Tilden winning the popular vote but losing the electoral vote to Rutherford B. Hayes?

Answer: Presidential Election of 1876 (accept equivalents that mention the year)

19. Some residents of this state wanted to honor Ben Snow, but were too drunk or illiterate to fill out the incorporation form correctly and the name was turned into Snowball. A popular riverboat landing where whiskey flowed freely became known as Toad Suck

because of its fat patrons. The site where Paramore's St. Louis A & T and Gould's Iron Mountain and Southern railroads met became known as Paragould. Likewise, a town near Russelville named Altus, the setting of *The Simple Life*, was named because it was the highest point on the railroad connecting Fort Smith and the state's capital. For ten points, name this state home to Hot Springs, Pine Bluff, Fayetteville, and Little Rock.

Answer: Arkansas

20. In Horace's *Ars Poetica*, this word is applied to the depiction of sacred groves, Diana's temple, and the Rhine using something as out of place as a majestic cypress tree in a painting of a drowning sailor. In the literal English translation of the Chinese for "Forbidden City," this word immediately precedes Forbidden. Legend has it that Heracles' dog found the Tyrian [TAI-ree-an] variety from chewing murex snails, and it became a symbol of the aristocracy. This adjective is used by Sheb Wooley to refer to a monster as fearsome as the Minnesota Vikings' defensive line, both of which were referred to as this type of "people eater," while it takes on a softer aspect by describing the precipitation in a 1984 Prince movie and the haze in an oft misquoted song by the Jimi Hendrix Experience. For ten points, name this adjective that describes prose, a forbidden city, regal dye, people eaters, rain, and haze.

Answer: purple (prompt on "zi" or "purpureus")

21. Containing most of its country's vineyards, this region was originally a Slavic settlement in the 600s. Its highest mountain is the Praded, at an elevation of 1,490 meters, and on its southern end one can find the Jesinky highlands. To the east, its border is formed by the White Carpathian mountains, separating this region from an area of Poland now associated with it. Birthplace of Sigmund Freud, its major cities include Ostrava and Brno, where citizens often joke about the neighboring Bohemians. The ethnicity of the settlers also gives the alternate name of the Battle of the Thames. For ten points, name this Czech region which is now combined with Silesia into one province and takes its name from the Morava river.

Answer: Moravia or Mähren

2 Princeton and University of Miami Bonuses, Round 8

1. Answer these questions about medieval Latin writers for ten points each.

10 This 12th century German composer and poet wrote *Ordo Virtutum* and collected her vision is *Scivias*.

Answer: Hildegard von Bingen

10 This Goliard poet, whose patron was the Archbishop of Cologne, is known only by his self-bestowed aggrandizing title. His poem, *Estuans intrinsecus*, became a long aria in Carl Orff's adaptation of the *Carmina Burana*.

Answer: The Archpoet or Archipoeta

10 Although better known for writing in the vernacular, his *De Vulgari* is a masterful Latin account of why he wrote *The Divine Comedy* in Italian.

Answer: Dante Alighieri

2. Some psychologists got famous just for drawing lines. Answer some questions about them for ten points each.

10 Allport showed subjects lines undergoing this orientation-preserving orthogonal transformation and determined how much of it humans could perceive.

Answer: rotation

10 On a line with A and C as endpoints and B halfway in between, he drew left facing arrows at A and C and a right-facing arrow at B; most people thought the BC segment was longer in his 1889 experiment.

Answer: Franz Müller-Lyer

10 His 1951 study showed subjects in a classroom a set of lines and asked them to match them to a reference line; confederates gave incorrect answers and caused some people to give the wrong answer too.

Answer: Solomon Asch

3. The city of Warwick, Rhode Island has a rich and interesting history. , for ten points each. . .

10 Like the rest of New England, Warwick was decimated from 1675 to 1676 by the Wampanoags led by this chief.

Answer: Metacomet or King Philip

10 In 1772 Warwick patriots shot Lt. Duddingston and seized this British ship that was enforcing the Stamp Act of 1765.

Answer: The Gaspee

10 This defender of Culp's Hill, hero of Gettysburg and grandson of a Revolutionary War general hailed from Warwick.

Answer: George S. Greene

4. For ten points each, name these people and places in the Palatinate phase of the Thirty Years' War.

10 This general was head of the Catholic League forces under Maximilian 1. Later in the war, he would lead against the Swedish at the Siege of Magdeburg and would lose to Gustavus Adolphus at Breitenfeld.

Answer: Johan Tserclaes, Count Tilly (either one)

10 Tilly and Ferdinand II soundly defeated the forces of Frederick V at this site near Prague on November 8, 1620. As a result, Protestant resistance was shattered for the time being.

Answer: Battle of White Mountain or Bila Hora

10 This coalition, also called the Protestant League, was dissolved as a result of Frederick V's loss at the Battle of White Mountain.

Answer: League of Evangelical Union or Union of Auhausen

5. Fear is the mind-killer. Or maybe it's pop music. Identify some pop music bands from their relationship to *Dune* for ten points each.

10 This band included the lines "the spice is the worm and the worm is the spice" in their song "Intergalactic" from *Hello Nasty*.

Answer: Beastie Boys

10 This alter-ego of Quentin Leo Cook included the line "if you walk without rhythm, you won't attract the worm" in his song *Weapon of Choice*, later made into a music video with Christopher Walken dancing without rhythm.

Answer: Fatboy Slim

10 This band better known for the song *Africa* wrote the score to the movie *Dune* with the Vienna Symphony Orchestra.

Answer: Toto

6. No matter what Captain Stubbing thinks, doctors are on boats to do more than provide a convenient romantic interest. For ten points each, given a ship's doctor, name the work of fiction; you'll get five if you need the author.

10 La Condesa and Willie Schumann form a tryst on their way to Bremen, but maybe she's just interested in his morphine supply.

5 Katherine Anne Porter

Answer: Ship of Fools

10 Philip Carey, who becomes a doctor despite his club foot, is seduced away from a job as a ship's doctor by Mildred, a serving girl at a café.

5 Somerset Maugham

Answer: Of Human Bondage

10 Chapter 16 is narrated by Doctor Livesey who is the only sensible person looking for what Ben Gunn has hidden in his cave.

5 Robert Lewis Stevenson
Answer: Treasure Island

7. For ten points each, give the names of the following people who are buried in the Poet's Corner of Westminster Abbey.

10 Born in 1631, he became the Poet Laureate of England in 1668 and was well known in his time for his *Annus Mirabilis*.
Answer: John Dryden

10 Born in Dublin in 1751, he was a Whig MP. His first play, *The Rivals*, was not popularly successful initially, but it eventually became a huge hit.
Answer: Richard Sheridan

10 He was Poet Laureate of England from 1850 until he died, and was well known for his *Tithonus* and *Enoch Arden*. However, he is better remembered today for such poems as *The Lady of Shalott* and *In Memoriam A.H.H.*
Answer: Alfred Lord Tennyson

8. Answer the following about the history of Malta for ten points each.

10 Malta originally became an early bastion of Christianity when this missionary shipwrecked here in AD 60.
Answer: Paul or Saul of Tarsus

10 Malta was given in 1530 by Charles V to this order after the fall of Rhodes.
Answer: Sovereign Military and Hospitaller Order of St. John of Jerusalem, of Rhodes, and of Malta (accept word forms)

10 After withstanding months of bombardment by Germany and Italy, the entire island was given this British decoration, which now appears on the nation's flag.
Answer: George Cross

9. Answer some questions about central Siberian geography, for ten points each.

10 Since 1966, a pulp and paper plant has been spewing two hundred thousand cubic meters of waste per day into this pristine lake, containing nearly a fifth of the world's non-frozen fresh water.
Answer: Lake Baikal

10 This river system, which is connected to the Ob-Irtysh system by a canal, drains Lake Baikal and much of central Siberia before emptying into the Kara Sea.
Answer: Yenisey River (accept Yenisey-Angara or Yenisey-Angara-Selenga)

10 This is the largest city in Siberia, and was renamed from Novonikolayevsk in 1925. Its growth is due to the universities in Akademgorodok, the Kuznetsk coal fields, and the Tran-Siberian Railway's crossing of the Ob here.
Answer: Novosibirsk

10. First identified by Woese and Fox, the organisms of this domain show numerous similarities to eukaryotes. For ten points each . . .

10 Name this group of “ancient” prokaryotes

Answer: Archaeobacteria or Archaea

10 Unlike most bacteria and all eukaryotes, the Archaea have lipids made up of glycerol and this functional group.

Answer: Ether (most bacteria and all eukaryotes have ester-glycerol linkages)

10 The members of this “gassy” group of Archaea are found in anaerobic environments such as ground sediments and animal intestines.

Answer: methanogens

11. In response to a 1973 US Supreme Court decision, an author replaced all possible obscene words in a novel, resulting in such wonderful phrases as “This tastes like rehnquist, you powellhole!” and “He burgered her lustfully. His mighty rehnquist thrusting deep into her forbidden, intimate blackmun.” For ten points each :

10 Name the Supreme Court decision which confirmed that whether a work is obscene should be judged by “the average person applying contemporary community standards”.

Answer: Miller v. California

10 Give the title of the 1974 novel, the sequel to “Myra Breckinridge”.

Answer: Myron

10 Who is the author of *Myron* and *Myra Breckinridge*, who decided to tread on the safe side of the law?

Answer: Gore (Eugene Luther) Vidal

12. Identify these works of Jules Massenet from descriptions of their main characters and literary sources for ten points each.

10 Massenet’s work by this name tells the story of Fanny Legrand who runs away with Jean Gaussin and is based on a Alphonse Daudet work. It’s also the title of a work by Gounod about Phaon’s love for an ancient Greek female poet of Lesbos.

Answer: Sapho

10 One of Massenet’s last operas and performed after his death, this work is based on a Rabelais character who had 63 ways of getting money, the most honorable of which was theft.

Answer: Panurge

10 Like Janet Jackson, Sibyl Sanderson had a wardrobe malfunction at the premiere of this opera about a courtesan-turned-saint originally written by Horoswitha but adapted into a poem and novel by Anatole France.

Answer: Thais

13. Name these battles from Japanese history , for ten points each. . .

10 Actually fought in Korea Bay and not along its namesake waterway, this largest naval encounter of the First Sino-Japanese War saw the Japanese fleet hand the Chinese a humiliating defeat by sinking five warships and killing more than 800 sailors.

Answer: The Battle of the Yalu River/Jiang

10 In 1895 Admiral Heihachiro Togo intercepted the Russian's Baltic Fleet en route to Vladivostok and sank all eight Russian battleships to win this decisive engagement.

Answer: The Battle of Tsushima Strait

10 In September 1600 the forces of Tokugawa Ieyasu defeated the army of Ishida Matsunari, ending the reign of the Toyotomi clan

Answer: The Battle of Sekigahara

14. Name these works of Immanuel Kant, for ten points each.

10 In this most famous and first "critique," Kant opposed the strict empirical viewpoint of Hume and tried to reconcile rationalism and empiricism

Answer: Critique of Pure Reason or Kritik der reinen Vernunft

10 Kant focuses on the categorical imperative and applies it to the case of lying in this foundational work, arguing that lying is immoral. He also famously declares that "every rational being exists as an end in himself."

Answer: Groundwork of the Metaphysic of Morals or Grundlegung zur Metaphysik der Sitten

10 This third "critique", divided into parts focusing on teleology and aesthetics, features Kant arguing that genius is the opposite of the titular entity, as one allows one to produce beautiful things while the other is necessary to appreciate them.

Answer: Critique of Judgment or Kritik der Urteilskraft

15. Given a tale of a miserable Japanese transplant in a novel, give the author for ten points each or for five if you need better known works.

10 Kamejiro Sakagawa's loyalty to the emperor leads to madness in this author's Hawaii, but his children redeem his memory by helping MacArthur's occupation.

5 He won the 1948 Pulitzer for *Tales of the South Pacific*.

Answer: James Michiner

10 Etsuko's life is destroyed when one of her daughters commits suicide, and her thoughts turn to her memories of Sachiko's girl Mariko in *A Pale View of Hills*.

5 He also wrote *The Remains of the Day* and *Never Let Me Go*.

Answer: Kazuo Ishiguro

10 After finding a photograph under a green ceramic dinosaur, Maya realizes how empty her life with Jeff is and wonders what destroyed her relationship with her forgotten father in Osaka in *Stone Field, True Arrow*.

- 5 This author is better known for children's work like *The Dream of Water* and *One Bird*.

Answer: Kyoko Mori

16. Thanks to Dan Passner's canon-expansion, we can now write bonuses about more obscure Henry Roth works. (Brief Pause) Just kidding! For ten points each, identify these title characters from Jewish literature from short descriptions. You can get five points if you need the author.

- 10 A Hasidic Jew from Brooklyn who is a talented artist tries to express himself through his painting while battling alienation from his father and his community.

- 5 Chaim Potok

Answer: Asher Lev (prompt on partial answer)

- 10 A secular Jew in a major mid-life crisis after his second divorce spends all his time writing but not sending letters to friends, family, and famous people expressing his disappointment with himself and with life.

- 5 Saul Bellow

Answer: Moses Herzog

- 10 A self-obsessed Jew from Newark rants to his shrink about his unsatisfied sexual needs and his relationship with his mother.

- 5 Philip Roth

Answer: Alexander Portnoy (accept Portnoy's Complaint)

17. Our solar system has eight planets, right? Well, maybe not. For ten points each, name these large bodies which may or may not be planets.

- 10 This trans-Neptunian entity which is larger than Pluto is orbited by a moon nicknamed Gabrielle; it was formerly named Xena but is now named after a goddess of discord.

Answer: 136199 Eris

- 10 This second-largest dwarf planet is orbited by at least three moons, the smaller of which are Nix and Hydra. It was discovered by Clyde Tombaugh.

Answer: 134340 Pluto

- 10 Named for an Inuit goddess, this red object is about 2/3 the size of Pluto and was previously the most distant solar system body before Xena earned that distinction.

Answer: Sedna (prompt on "2003 VB12")

18. Answer the following about the **real** work of Alexander Borodin, and not the crap he did to blow off steam for ten points each.

- 10 Borodin's early education was with this professor at Heidelberg who has a conical flask named after him and suggested that naphthalene was two benzene rings sharing two carbons.

Answer: Richard August Carl Emil Erlenmeyer

- 10 Borodin's work later in life focused on reactions that produced these beta-hydroxy ketone or aldehyde products.
Answer: aldol
- 10 Borodin reacted benzyl chloride with potassium bifluoride to produce the first nucleophilic replacement of a halogen with fluorine, an example of this reaction expounded by a twentieth-century chemist but to which Borodin's name is sometimes attached.
Answer: Hunsdiecker reaction
19. The Egyptians were obsessed with death. Answer the following about their many death deities for ten points each.
- 10 This jackal-headed god weighed the heart of each dead person against the feather of Ma'at.
Answer: Anubis
- 10 This wife of Set was associated with vultures and funerary rituals: her hair was associated with the funeral shrouds of the buried.
Answer: Nephthys
- 10 This demon had the head of a crocodile, body of a leopard, and backside of a hippopotamus and devoured those who were found unworthy by the scales of justice.
Answer: Ammit or Ammut
20. His most important work, *Market and Equilibrium* details his namesake game. For ten points each . . .
- 10 Name this German economist who pioneered game theory with his description of a market situation in which firms make decisions sequentially.
Answer: Heinrich Freiherr von Stackelberg
- 10 The Stackelberg model only applies to this specific market form which has two primary actors.
Answer: duopoly
- 10 Unlike the Stackelberg game, this duopoly model assumes that firms make decisions at the same time and cannot change prices once they are set, resulting in the price that would be charged under perfect competition.
Answer: Bertrand model (or game, competition, equivalents)