

Benedictas Mikulis Memorial Singles

Round 1

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1. In a section entitled "On Eating and Drinking," the title character wishes that "you could live on the fragrance of the earth," and urges a song of "remembrance for the autumn days, and for the vineyard, and for the winepress." A hermit who visits the city once a year asks to be told of pleasure, which prompts the comparison of pleasure to "a depth calling unto a height, but it is not the deep nor the high." In its final section, after being thanked by the seeress Almitra, the title character asks, "Was it I who spoke? Was I not also a listener?" and bids goodbye to the people of Orphalese, and this work ends with Almitra standing on the sea-wall, remembering the saying "A little while, a moment of rest upon the wind, and another woman shall bear me." This work begins with the coming of a ship in the month of Ielool, and commences with a request to Almustapha to share his truth. Including meditations on "Good and Evil," "Prayer," and "Friendship," for ten points, identify this collection of poetic essays, the most famous work of Kahlil Gibran.

Answer: The Prophet

2. Its parts are coded by DNA with extra J segments spliced out after transcription. Its production can be class switched via genetic shuffling mediated by interleukin-4 secreted by helper T cells. Kappa and lambda families code for variable regions of light chains; V, D, and J segments code for variable regions of heavy chains. Held together by disulfide bonds, it comprises 2 identical heavy chains with function-determining constant regions and 2 identical light chains whose variable regions, along with the heavy chains, form antigen binding sites. Including pentamer IgM and monomer IgG, FTP name this protein produced in humoral immunity by B cells.

Answer: antibody or immunoglobulin

3. He was forced to omit narrative figures from his facade for the town hall of Valenciennes due to weight restrictions, and among the busts produced by this man are ones of Jean-Leon Gerome and Nadine Dumas, as well as Chris Frankel's favorite sculpture, *The Negress*. A student of Francois Rude, this man also sculpted a bronze figure holding a tambourine entitled *The Genius of the Dance*, and a memorial to Antoine Watteau, also in Valenciennes, his hometown. His most famous work was the result of a collaboration with Chalres Garnier, and like Rodin, he is well-known for sculpting a scene from the *Inferno*, which depicts the anguish of Ugolino and his sons. For ten points, identify this French baroque sculptor, best known for his group for the facade of the Paris Opera entitled *The Dance*.

Answer: Jean-Baptise (or Jules) Carpeaux

4. The first mention of this man is in the documents recording the transfer of a castle between his father Woyk and King Sigismund. He studied under Francesco Sforza in Milan, and following his return home and several important victories, he was appointed *ban* of Severin. Following the death of Albert II, this man, by now having become *voivode*, supported the election of Wladyslaw III. His famous "long campaign" saw him aid George Brankovic in securing the Treaty of Szegedin, and saw such events as the occupation of Nis and Sofia, leading up to a Treaty of Adrianople, signed with Murad II. Although this man suffered defeats at

both Varna and the second Battle of Kosovo in 1444 and 1448, he did lead a crusade preached by John of Capistrano and managed to lift Mehmet II's siege of Belgrade in 1456, the same year that he died following an epidemic in his camp. Sometimes referred to in Turkish as "war's lightning and thunderbolt," for ten points, identify this Hungarian governor and general, whose youngest son succeeded him in 1456 as Matthias Corvinus.

Answer: Janos **Hunyadi**

5. The 24th work in this collection's first section asks whether we should "disown our oldest friendships... because the hard steel that we so rigorously have reared does not know them." Another work notes that "only in the land of Praise can Lamentation work," while in a work referencing the titular character's wife, the author exhorts the reader to "arise singing with greater praise, rise again to the pure relation." In reference to the title character, the poet commands the roses to blossom every year for his memory's sake, while another work in this collection notes that "at the crossing of two heartways stands no temple to Apollo." Addressing a "divine one" whose "upbuilding song" "rose ringing among your destroyers" despite the fact that the title character was "attacked by the flouted Maenads' throng," for ten points, identify this collection of poems dedicated to a Greek musician written by Rainer Maria Rilke.

Answer: **Sonnets to Orpheus** or Die **Sonette an Orpheus**

6. One work of this name is a short story about the friendship between the narrator's mother and Parul, the mother of Kaushik, and was written by Jhumpa Lahiri. A play of this title features the characters of George, May, and Jerry, who start a voice school for silent movie actors, and was one of the collaborations between Moss Hart and George Kaufman. A recent movie of this name was directed by Paul Crowder and John Dower and concerns the story of the New York Cosmos during the years when Pele and Beckenbauer played for that team. More famously, this title also refers to a song from the album *Remain in Light* which features the refrain "Same as it ever was," as well as the singer asking such questions as "Where does that highway go to?" and asserting that "This is not my beautiful wife." For ten points, identify this title most famously possessed by a Talking Heads song which refers to a singular event during one's time in this world.

Answer: **Once in a Lifetime**

7. The Hercynian and Alleghenian orogenies began in this period, during which the Rheic ocean closed. Notable for the formation of cyclothem, this period also saw blastoids reach their greatest diversity and the appearance of the Callistophytales and cycads, as well as the development of the amniote egg. Euteryptids and other giant insects flourished in the hyper-oxygenated atmosphere, which was generated in part by the development of bark-bearing trees. FTP, name this era which fell between the Devonian and the Permian whose name derives from its rich deposits of coal.

Answer: **Carboniferous** period

8. In this work's last section, the author attempts a brief presentation of an "institutional theory of progress" while its tenth section focuses on the distinction between essentialism and nominalism. This work cites Hayek in support of a "criticism of anti-naturalistic doctrines," while a section devoted to the criticism of "pro-naturalistic doctrines" open by asking whether there is a "law of evolution." The author notes that Mill recognized the difference between "piecemeal technology" and the titular concept in a section entitled "The Unholy Alliance with Utopianism," and rejects the "holistic theory of social experiments," instead preferring smaller, more manageable reforms. Famous for its criticism of Marxism and Hegelianism, for ten points, identify this work which argues against all-encompassing social theories, written by Karl Popper.

Answer: The **Poverty of Historicism**

9. A discussion of this concept is at the center of Barry Schwartz's recent book, *The Paradox of Choice*, and the paper in which it was first presented is the second-most cited paper ever to appear in the journal

Econometrica. Richard Thaler built on this concept in developing the endowment effect, while other consequences of it include the status quo bias, and Thaler also collaborated with Shlomo Benartzi to apply this theory to the equity premium puzzle. This theory's characteristic graph plots outcome against value, with the origin being a reference point, and claims that losses are felt more keenly than equivalent gains, thereby explaining the phenomenon of loss aversion. Proposed in part by Amos Tversky in a paper subtitled "An Analysis of Decision under Risk," for ten points, identify this theory of behavioral economics which won one of its formulators, Daniel Kahneman, the 2002 Nobel Prize in Economics.

Answer: **prospect** theory

10. The run-up to this battle saw the storming of the previously impregnable fortress of Aornos, and the victory here enabled the construction of a fleet commanded by Nearchus and Onesicritus. The victorious army at this clash had been aided by Taxiles, the rival of a man who held the land between Jhelum and Chenab, and victory came after a pincer maneuver in which the winning general left behind a force under Craterus to ford the river, while venturing about 17 miles upstream in search of a crossing. Victory was assured when the attackers broke the defenders' left flank, fending off an attack by war elephants, and its aftermath saw the founding of two cities, one named for the victorious general and one for that general's horse, which had perished at this battle. For ten points, identify this last great victory of Alexander the Great, won over the Indian ruler Porus on the left bank of the river that gives it its name.

Answer: Battle of the **Hydaspes** River

11. Belady's anomaly states that page faults can still occur when increasing the number of page frames in this process. FIFO, MIN, and LRU are all ways for doing this, and the Nth-chance algorithm, clock algorithm, and dirty bits can alleviate stale memory when a write-back policy is used for it. The monitoring of bus activity for a type of instruction is part of the snoopy type of this, and thrashing occurs when it is overcommitted. Examples are uses of sequential, direct mapped, or set associative translation lookaside buffers, and it utilizes resources below the main memory and above the register level. FTP name this process of storing recently accessed data.

Answer: **caches** or **caching**

12. Word of the advancement of the attackers prior to this engagement was sent by the outpost commanded by Edward Hand, and the victorious side's fleet contained the frigates *Phoenix*, *Rose*, and *Greyhound*. The main action took place around Flatbush and Bedford, and following General Sullivan's capture, the defenders retreated across the river near the location from which this battle takes its name. The day before, William Alexander fought a delaying action to protect another American retreat, eventually surrendering to the Hessian general De Hessiter. British reinforcements were supplied by Admiral Richard Howe, while British forces halted their pursuit at the breastworks at Brooklyn Heights. Ending with Washington's retreat to Manhattan, for ten points, identify this August 27, 1776 battle, in which General William Howe expelled the Americans from the namesake piece of land.

Answer: Battle of **Long Island**

13. This film opens with a long shot of the title character laying on his couch and smoking, and a shootout at a train station leaves the title character wounded in the arm. An alibi provided by Jane combined with the reluctance of Valerie results in the title character's release by the superintendent, and at a later meeting, Valerie, after questioning the title character's motives, asks "What kind of a man are you?" An oblique reference is made to this movie in the game Hitman 3: Blood Money in the form of a bird kept by Agent 47, and in the film, the bird possessed by the title character alerts him to the presence of both a bug and an intruder who has come to settle the matter of a botched job. After killing Rey, the title character proceeds to the bar where he committed the first murder of the film, and responds to Valerie's question of "Why, Jef?" with his statement, "I was paid to," before being shot by the hidden police. For ten points, identify

this movie directed by Jean-Pierre Melville and starring Alain Delon as the titular assassin.

Answer: Le **Samourai**

14. The gap associated with this phenomenon can be given as proportional to the derivative of the Fermi occupancy with respect to the magnetic field, since this phenomenon can be completely explained in terms of the occupancy of localised and extended Landau levels. One version of it is the result of collective excitations, and was discovered by Tsui and Stormer in a heterostructure and explained by Laughlin, though the more famous version of this phenomenon was discovered in the inversion layer of a MOSFET. It is observed in two-dimensional electron gases at low temperatures subjected to a strong magnetic field, and allows a precise measurement standard of electric resistance, since its associated constant is exactly equal to Planck's constant over the electron charge squared. Also including a fractional variety, for ten points, identify this analogue of a classical effect whose namesake resistance is quantized and which was discovered by Klaus von Klitzing.

Answer: **Quantum Hall** Effect (do not accept or prompt on "Hall Effect")

15. This man's primary artistic training came with William Bouguereau at the Ecole des Beaux-Arts. His turn away from academism may have been prompted by a gift of Whitman's *Leaves of Grass*, and after briefly dabbling in impressionism, he abandoned it, calling it "the new academism." Barbara Brown was the model for this man's *Reclining Nude*, though he is better known for numerous paintings of the Maine coast, as well as such paintings as *Snow in New York*. A student of Thomas Anshutz and an admirer of Thomas Eakins, as well as himself the teacher of Edward Hopper, this man set forth his aesthetic theories in *The Art Spirit*, but he is more famous for being an inspiration to the "Philadelphia Four" comprising William Glackens, George Luks, Everett Shinn, and John Sloan, who with three others exhibited under his direction as "The Eight" in 1908. For ten points, identify this American realist painter, best known as the organizer of what would become the Ashcan School.

Answer: Robert **Henri** (pronounced HEN-rye)

16. It features an episode during which a mouse counsels against the killing of a cat, saying "Though we killed the cat, there would come another." In its third part, one character admonishes a king to "let not thy left half... know what thou workest with thy right side," and in a later section, the title character asks a companion that "though poor men proffer you presents and gifts, take it not." This work's eighteenth section tells the story of Christ before Pilate and is entitled "The Harrowing of Hell," and is part of this work's "B" text, of which passus 8 through 20 concerns the vision of Do-Well, Do-Better and Do-Best. Including such characters as Lady Meed and Will, who sees the title character, for ten points, identify this medieval text which opens in the Malvern Hills and may have been written by William Langland.

Answer: The Vision of Will Concerning **Piers** the **Plowman**

17. Yoshida and Kinoshita bound it to a histidine-adhered nickel complex and attached a biotin-avidin connected tubulin polymer to one of its c subunits to find 3 discrete steps of 120 degree rotations. John E. Walker crystalized its alternating alpha-beta subunits with 3 beta conformations, one of which is empty. Paul Boyer proposed that its epsilon and gamma subunits are attached to the concentric layers of 2 c helices, while its a, b, and delta subunits hold the F_0 and F_1 components in place, as the c-gamma shaft rotates when 3 protons enter. Confirming Peter Mitchell's chemiosmotic model, FTP name this enzyme coupling proton flow to the phosphorylation of ADP.

Answer: **ATP synthase**; do not accept "ATPase"

18. This man's unpublished work includes an economic treatise entitled "Three Essays Advocating the Abolition of Money," while the unpublished chapters of one of his more famous works was published together with such stories as "Perfect California Day" in *Revenge of the Lawn*. One volume of his poetry is entitled

Rommel Drives Deep into Egypt, and this man's novels include one about a library in which none of the books have been published as well as one about Lee Mellon, the titular descendant of Civil War soldier Augustus Mellon. In addition to *The Abortion* and *A Confederate General From Big Sur*, this man also wrote about a post-apocalyptic future set in the village of IDEATH as well as another novel entitled *The Hawkline Monster: A Gothic Western*. The author of *In Watermelon Sugar*, for ten points, identify this American writer who killed himself in 1984 and is probably best remembered for his *Trout Fishing in America*.

Answer: Richard Gary **Brautigan**

19. Two of its components are mentioned as times when those who have not attained puberty are to ask for permission, and also as times of privacy. On the traditional market day, one of its components is replaced by the jum'ah, which must be preceded by the ghushl, and a participant in this activity may sometimes enter a state known as ihram. Its performance involves the execution of physical motions known as rak'ahs, which are preceded by the reading of the fatihah, and both Id al-Adha and Id al-Fitr are distinguished by the performance of this action at daybreak on their first days. Led by an imam and consisting of dawn, midday, afternoon, sunset, and evening performances, for ten points, identify this daily prayer ritual performed while facing in the direction of Mecca, one of the five Pillars of Islam.

Answer: **salat**

20. The evacuation of garrisons stipulated by it took longer than the 6 months prescribed, with the Nogales garrison taking almost 3 years to dismantle. One of the parties to this treaty was involved in the Nootka Sound affair during its negotiations, and gains made during this treaty were threatened five years later by the revocation of the "right of deposit." Like previous treaties with the Netherlands, France, and Prussia, it forbid privateering commissions, and its fifth article stated that the two nations would contain Indian aggression within their boundaries. It tied up the outstanding disputes that remained from the Jay-Gardoqui negotiations, and included the definition of the southern boundary of the US as the one agreed to with Britain in 1783, as well as the definition of the western boundary as the Mississippi river. Better known by the name of the American who negotiated it, FTP, what is this treaty between Spain and the United states, also known as the Treaty of San Lorenzo?

Answer: **Pinckney's Treaty**