

SOUTHEAST-MIDWEST HOUSEWRITE: TIEBREAKER

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NOTE: SEPARATE TOSSUPS AND BONUSES UNLIKE THE REGULAR PACKETS.

1. A Christian official in this dynasty named Sergius served as its treasurer and used his position to ransom the monk Cosmas of Maiuma. This dynasty failed to retake control over one territory after its forces were defeated in the Day of Thirst by the Turgesh Khaganate. That battle took place during of this dynasty's ruler Hisham, under whom this dynasty was also defeated at the Battle of Akroinion by the (*) Byzantines. After one branch of this dynasty led by Marwan II fell to forces under Abu Muslim at the Battle of the Zab. Muawiyah I founded this dynasty, whose expansion into Europe was halted by Charles Martel at the Battle of Tours. For 10 points, name this Muslim caliphate based in Damascus that preceded the Abbasids.

ANSWER: **Umayyad** Caliphate

<Sareddy, World History> [Ed. Prabhakar]

2. One of these phenomena is theorized to be responsible for the delivery of the tropical *C. gattii* fungal infection to forests in the Pacific Northwest. The Soloviev-Imamura scale measures the intensity of these phenomena. A “mega” one of these phenomena was caused by the Storegga Slide eight thousand years ago. BPRs record pressure differences to detect these phenomena in the (*) DART system. Bathymetric data is incorporated into the digital elevation models that predict these events since the severity of these events depends on depth. These phenomena are induced by sudden vertical displacement caused by earthquakes on the ocean floor. For 10 points, name these large waves, one of which caused large-scale destruction in southeast Asia in 2004.

ANSWER: **tsunamis** [prompt on waves or tidal waves until mentioned]

<Sareddy, Earth Science> [Ed. Bowman]

3. A religious movement that arose in this country and a smaller modern-day country claims that Jesus Christ lived to be 120 years and was buried at Roza Bal in this country. Moinuddin Chishti (“moy-new-doon chish-tee”) and Meher Baba preached in this modern-day country and founded two of many Sufi orders located here. A Sunni revivalist movement began at a *madrasah* in this modern-day country's town of (*) Deoband. Mirza Ghulam founded Ahmadiyya Islam in this modern-day country, whose first mosque was the Cheruman Juma Masjid. An empire based in this country charged non-Muslim citizens with the *jizya* tax. For 10 points, name this modern-day country, where tensions between Muslims and Hindus caused a 1947 partition between it and Pakistan.

ANSWER: **India** [or Republic of **India**; accept **Bharat Ganarajya**]

<Prabhakar, Religion> [Ed. Ashbrook]

4. This artist painted the title figure in a white robe raising his arms as distressed onlookers reach out over a parapet in his painting *The Martyrdom of Saint Symphorian*. A blue vase appears in the background of a tondo by this artist whose frontmost figure has her back to the viewer as she plays an instrument. Man Ray created a photograph of Kiki de Montparnasse titled for this artist's (*) “Violin” that resembles his *Valpinçon Bather*. A Guerrilla Girls poster asking “Do women have to be naked to get into the Met. museum?” puts a gorilla mask on a reclining nude by this artist. That figure by this artist is a turbaned concubine with too many vertebrae. For 10 points, name this French painter of *The Turkish Bath* and *La Grande Odalisque*.

ANSWER: Jean-Auguste-Dominique **Ingres** (“AWN-gruh”)

<Dantzer, Painting & Sculpture> [Ed. Strombeck]

5. This author declared that “love is no more / than the wide blossom which the wind assails” in a poem that repeatedly asks the reader to “pity me not.” In one poem, this author commanded “let geese / gabble and hiss” and described people who “stare/at nothing, intricately drawn nowhere.” In a poem by this author, a mother dies during a harsh winter after sewing “the clothes of a king’s son” with an unsellable (*) instrument. This author described the “holy, terrible day, / when first the shaft into” the title character’s “vision shone / of light anatomized” in one of her sonnets. The speaker of a poem by this author of “The Ballad of the Harp-Weaver” has a “candle that burns at both ends” that “will not last the night.” For 10 points, name this author of “Euclid alone has looked on Beauty bare” and “First Fig.”

ANSWER: Edna St. Vincent Millay

<Delot-Vilain, Poetry> [Ed. Leahy]

6. The Q_{10} coefficient is derived from this equation by observing the doubling in the left hand side when the input to the right hand side is increased by 10 units. A plot named for this equation graphs inverse temperature versus the logarithm of speed. A proportionality constant equal to “ k sub b times T times the transmission coefficient all over h ” is used in a variant of this equation from (*) transition state theory that is named for Eyring. Collision frequency times the steric factor gives the pre-exponential factor A in this equation. For 10 points, name this equation giving the relationship between activation energy, temperature, and rate constant, named for a Swedish chemist.

ANSWER: Arrhenius equation

<Bowman, Chemistry> [Ed. Lei]

7. A psychologist with the first name Joan argued that this concept in old people should help them in “becoming free” rather than isolated. According to one thinker, “diffusion” of this concept leads to “moratorium” of it characterized by absentness. This concept is generated by “explorations” and “commitments” according to James Marcia. The virtue of “fidelity” is realized and followed by “love” when this concept is (*) created according to one thinker. One book illustrates a conflict regarding this concept with a man who shouts “I am not!” at a choir rehearsal. The inability to deal with “role confusion” can result in a failure of this concept to materialize, according to the book *Childhood and Society*. For 10 points, name this personal concept that Erik Erikson theorized can undergo a namesake “crisis.”

ANSWER: identity [prompt on the self; accept identity crisis] (The person mentioned in the first line is Joan Erikson, the wife of Erik Erikson who co-developed most of his theories on identity development.)

<Ashbrook, Psychology> [Edited]

8. One author from this country represented himself as the character Belardo in “pastoral” comedies, which are contrasted with his “palace” and “cloak-and-sword” comedies. In a play from this country, a warden recognizes his sword being worn by the cross-dressing Rosaura. Another play from this country sees a servant escape a village to alert this country’s rulers about a commander’s murder. At the end of that play from this country, peasants are pardoned after they chant the name of the title (*) town. In another play written in this country, a man who learns to believe that “God is god” is drugged by Clotaldo. That man, Prince Segismund, marries Estrella after usurping his father as King of Poland. The plays *The Sheep Well* and *Life Is a Dream* are from, for 10 points, the literary “Golden Age” of what country, home to Lope de Vega and Pedro Calderon de la Barca?

ANSWER: Spain [or Reino de España]

<Ashbrook, Drama> [Ed. Leahy]

9. The Athenian lawgiver Draco had his legislation posted onto examples of these structures called *kyrbeis* (“keer-bay-ees”). The Aurelian Walls incorporated one of these structures named for Gaius Cestius. The mythological giant Xelhua supposedly built a “Great” one of these structures in Cholula. The Avenue of the Dead linked two large examples of these structures “of the (*) Sun” and “of the Moon” located in Teotihuacan that were often used for human sacrifices. The Saqqara necropolis is home to a “step” example of one of these structures designed by Imhotep as the burial site for Djoser. Giza was home to, for 10 points, what structures that housed the tombs of ancient Egyptian *pharaohs*?

ANSWER: pyramids [prompt on tombs or temples with “What type of building were they?”]

<Sareddy, Other History> [Ed. Prabhakar]

10. A climate activist from this country was cut out of an AP photo showing her with Greta Thunberg and three other girls during a January 2020 summit. In 2018, this country’s government implemented a social media tax to reduce the spread of “gossip.” A five day internet blackout in this country coincided with the house arrest of the leader of the People Power, Our Power movement. Pop star and opposition leader (*) Bobi Wine lost a hotly contested 2021 election in this country to a politician who has held power since 1986, Yoweri Museveni. A 2012 documentary sought to bring attention to the use of child soldiers by an insurgent in this country. For 10 points, name this country where the Lord's Resistance Army was founded under Joseph Kony.

ANSWER: Uganda

<Strombeck, Current Events> [Ed. Nageswaran]

1. The sex combs of this organism give their name to a group of proteins that oppose Trithorax-group proteins. For 10 points each:

[E] Name this model organism, in which Polycomb-group proteins were discovered. Those proteins act upon Hox genes, which were discovered in this insect in T. H. Morgan’s laboratory.

ANSWER: Drosophila melanogaster [or Drosophila melanogaster, or fruit fly, prompt on fly]

[M] The main function of polycomb repressive complex 2 is to add three of these functional groups to lysine 27 on histone H3. This functional group forms the side chain of alanine.

ANSWER: methyl group [or CH₃]

[H] Zhao et al. proposed that polycomb repressive complex 2 binds to RepA in Xist [“exist”] RNA during this process. This process was discovered in a strain of mice whose females were variegated.

ANSWER: X-chromosome inactivation [or lyonization]

<Karthik, Biology> [Ed. Lei]

2. In 2010, the Yale Symphony Orchestra created a production of this work which utilized a specific color organ and full hall lighting in an attempt to replicate its composer’s synesthesia. For 10 points each:

[H] Name this symphonic work. It is based around the chord A, D-sharp, G, C-sharp, F-sharp, and B, which is known as “[this work’s namesake] chord” or the “mystic chord.”

ANSWER: Prometheus: The Poem of Fire [accept either underlined part]

[M] *Prometheus: The Poem of Fire* is a late work by this Russian composer and pianist, whose other works include *The Poem of Ecstasy* and the “White Mass” and Black Mass” piano sonatas.

ANSWER: Alexander Nikolayevich Scriabin

[E] This other Russian composer and virtuoso was a close friend of Scriabin. He is best known for his challenging piano concertos, such as his *Rhapsody on a Theme of Paganini*.

ANSWER: Sergei Vasilyevich Rachmaninoff

<Dantzler, Classical Music> [Edited]

3. Gay men known as “gentles” work with a group of people of this gender to smuggle other people of this gender out of the cities in Sally Miller Gearhart’s novel *The Wanderground*. For 10 points each:

[E] Identify this gender. A volcanic eruption creates a society inhabited only by people of this gender who asexually reproduce in the novel *Herland*.

ANSWER: **women** [accept equivalents like **females**]

[M] *Herland* was written by this feminist author, whose experiences being treated by Weir Mitchell’s “rest cure” for postpartum depression inspired a story whose protagonist goes insane while stuck in an ugly bedroom.

ANSWER: Charlotte **Perkins Gilman** [accept either underlined part] (The unnamed story is “The Yellow Wallpaper”)

[H] Women like Sappho, the Virgin Mary, and Medusa inhabit an ideal city of women in this author’s *Book of the City of Ladies*. This Medieval author questioned the merits of rival poet Jean de Meun in the “Quarrel of the Rose.”

ANSWER: Christine de **Pizan** [or Christine de **Pisan**; accept Christina da **Pizzano**]

<Ashbrook, Short Fiction/Other> [Ed. Leahy]

4. Fontus was said to be the son of Juturna and this deity. For 10 points each:

[H] Name this deity who also fathered Tiberinus with his sister and wife, Camese. A nymph raped by this god was given a white hawthorn by him and became the goddess Cardea.

ANSWER: **Janus**

[E] Janus also took in this Roman god after his son Jupiter expelled him from Greece. This god wielded a sickle and was the Roman equivalent of Kronos that wielded a sickle.

ANSWER: **Saturnus** [do not accept ‘Kronos’]

[M] Janus made volcanic hot springs erupt during this event. Titus Tatius declared war in response to this event, which was perpetrated by Romulus and carried out during the festival of Neptune Equester.

ANSWER: **rape of the Sabine woman** [accept **kidnapping** or **abduction** in place of ‘rape’]

<Prabhakar, Myth> [Edited]

5. Robert D. Stuart founded this organization, which was chaired by Sears executive Robert Wood. For 10 points each:

[M] Name this organization that opposed American entry into the Second World War. Franklin D. Roosevelt told Henry Morgenthau he was “absolutely convinced” this organization’s spokesman, Charles Lindbergh, was a Nazi.

ANSWER: **America First** Committee

[E] Robert D. Stuart founded America First while a law student at this university. This university in New Haven was named after the slave trader Elihu.

ANSWER: **Yale** University

[H] This isolationist North Dakota senator played a role in the creation of the America First committee. This senator also chaired hearings on the role of munitions companies in entering the First World War.

ANSWER: Gerald Prentice **Nye**

<Prabhakar, American History> [Ed. Nageswaran]

6. One philosopher with this surname compared choosing a suitable justice theory to shopping for Pinot Noir in her paper “Why not a Feminist Theory of Justice?” For 10 points each:

[H] Give this surname shared by that thinker, Ruth, and her husband, a supporter of semantic externalism who proposed that different physical states can cause the same mental state in his theory of “multiple realizability.”

ANSWER: **Putnam** [accept Ruth Anna **Putnam**; accept Hilary **Putnam**]

[E] Hilary Putnam reformulated a thought experiment revolving around one of these body parts being isolated and stimulated using a computer, arguing that humans cannot necessarily be these things “in a vat.”

ANSWER: **brains** [accept **brain** in a vat]

[M] Putnam proposed a thought experiment about a twin Earth that refers to this thing as “XYZ.” The ancient philosopher Thales believed that this thing was the “primary principle” of nature.

ANSWER: **water** [or **H2O**]

<Ashbrook, Philosophy> [Edited]

7. This artist’s *TV Garden* consists of 40 televisions lying among many tropical plants. For 10 points each:

[H] Name this pioneer of video art, who used televisions and neon tubing to represent the United States in his *Electronic Superhighway*. He was also a member of the Fluxus art movement.

ANSWER: Nam June **Paik**

[M] Another member of Fluxus was this Japanese artist, who allowed audience members to cut off pieces of her clothing in *Cut Piece*. An iconic photograph shows this woman kissing her husband a few hours before he was shot outside the Dakota.

ANSWER: Yoko **Ono**

[E] Ono’s *Cut Piece* is an example of this type of art, which typically involves a live artist in front of an audience. Fluxus member Joseph Beuys’ works of this type include *How to Explain Pictures to a Dead Hare*.

ANSWER: **performance** art

<Dantzer, Miscellaneous Fine Arts> [Edited]

8. The formula for this quantity is often derived through a thought experiment in which a beam of light reflects up and down within a moving train. For 10 points each:

[M] Name this quantity, denoted gamma, equal to “one over the square root of the quantity one minus v -squared over c -squared.”

ANSWER: **Lorentz** factor [or **Lorentz** gamma]

[E] Lorentz transformations can be viewed as one of these transformations in 4D spacetime. Along with reflections and translations, these transformations preserve the length of the vectors they act upon.

ANSWER: **rotations**

[H] The rotation in 4D spacetime described by a Lorentz transformation can be expressed in terms of a matrix involving the hyperbolic sine and cosine of this parameter. Unlike velocity, this parameter is additive.

ANSWER: **rapidity**

<Karthik, Physics> [Ed. Bowman]

9. This event saw its participants declare “We are men! We are not beasts and we do not intend to be beaten or driven as such.” For 10 points each:

[H] Name this 1971 event sparked by the death of George Jackson. Four days of negotiations were unable to satisfy all the demands of participants in this riot.

ANSWER: **Attica** Prison Riot [or **Attica** Prison Rebellion; or **Attica** Prison Uprising]

[E] The Attica Prison Riot took place in this state. A later attempted rebellion in this state’s Sing Sing Prison was more successfully dealt with by governor Mario Cuomo.

ANSWER: **New York**

[M] This then-governor of New York ordered state police to crush the Attica riot. A leader of a namesake liberal wing of the Republican Party, this man also briefly served as vice president under Gerald Ford.

ANSWER: Nelson Aldrich **Rockefeller**

<Alaro, American History> [Ed. Nageswaran]

10. One of these beings is pursued by a creature whose “Whorle pins” did not clasp a watch. For 10 points each:

[H] Name this being described in an Edward Taylor poem, whose throat is taken “too hastily” by a “sorrow, venom Elfe.” In *Songs of Experience*, William Blake describes one of these beings that “my thoughtless hand / has brushed away.”

ANSWER: a **fly** (the first poem is “Upon a Spider Catching a Fly”)

[M] This poet of “A Fly Caught In A Cobweb” also wrote a poem which opens by describing love’s “unconfined wings.” He declared “Stone Walls do not a Prison make, / Nor Iron bars a Cage;” in “To Althea, from Prison.”

ANSWER: Richard **Lovelace**

[E] This author described a fly’s “uncertain - stumbling Buzz -” and the “Stillness in the room” in her poem “I heard a Fly buzz - when I died -”. This reclusive Belle of Amherst also wrote “Because I could not stop for Death -”

ANSWER: Emily **Dickinson**

<Mehra, Poetry> [Ed. Leahy]