

MSQB Madness

Packet 3

Written by: Deven Hagen, Aarushi Kanigicherla, Jason Qing, Shiva Telluga, and Alan Zhu.
Edited by: Andrew Gao, Cindy Gao, Neev Sahgal, and Nathan Sheffield.

This page is empty to help people who wish to read these questions to themselves.

Tossups

1. **One character in this play is chastised after spending three weeks making Christmas decorations. That character, nicknamed "little squirrel" and "skylark," is forbidden from eating macaroons. Another character in this play mails two cards with black crosses on them to announce his self-diagnosis of spinal syphilis. This play ends with a husband musing on "The most wonderful thing of all," followed by a (*) door slam.** Dr. Rank is a character in this play, and another character in this play is blackmailed by Krogstad for forging her dead father's signature to fund a vacation to Italy. For 10 points, name this play where Nora Helmer leaves Torvald because she feels that she is trapped in the title structure, written by Henrik Ibsen.

ANSWER: A **Doll's House** [or **Et dukkehjem**] <Literature - European, AL>

2. **This composer wrote a work in which a male countertenor sings the Psalm of David. That work is the *Chichester Psalms*. This composer's third symphony commemorates the death of John F. Kennedy, and they hosted televised "Young People's Concerts." This composer wrote "Make our Garden Grow" and the aria "Glitter and Be Gay" for his operetta (*) *Candide*.** This composer's most famous work includes songs such as "America" and "I Feel Pretty." That work also includes a song about Maria that is sung by Tony, who eventually dies in a rivalry between the Jets and the Sharks. For 10 points, name this former conductor of the New York Philharmonic and the composer of *West Side Story*.

ANSWER: Leonard **Bernstein** <Fine Arts - Auditory, AL>

3. **This organ's namesake lipase hydrolyzes triglyceride substrates into monoglycerides and free fatty acids. For some people, the duct of Santorini connects this organ to a part of the small intestine, the duodenum. One of the hormones secreted by this organ causes the degradation of glycogen into glucose, while another hormone secreted by this organ does the opposite. This organ secretes (*) glucagon in the alpha cells of the islets of Langerhans, and it secretes the hormone it produces in its beta cells. Those beta cells in this organ are targeted in Type 1 diabetes.** For 10 points, name this organ that produces insulin.

ANSWER: **pancreas** <Science - Biology, AK>

4. **It was concluded that damage from foam shedding caused one of these incidents, whose seven casualties included Rick Husband and William McCool. The "Forever Remembered" memorial honors victims of these events. The Rogers Commission investigated one of these events, which killed Dick Scobie. In a speech after one of these events, Ronald Reagan eulogized its victims, who attempted to (*) "touch the face of God." Unusually cold conditions may have caused the failure of O-rings in one of these events near Cape Canaveral. High school teacher Christa McAuliffe died in, for 10 points, what fatal events befalling NASA's Columbia and Challenger?**

ANSWER: **Space Shuttle disasters** [accept synonyms like **incidents** instead of **disasters**; accept **Columbia** disaster before "Forever Remembered"; prompt on partial answers; anti-prompt on **Challenger** disaster or **Columbia** disaster before mention; do NOT accept or prompt on "Space Shuttle launches"] <History - Other, AG>

5. **With 26 lanes, the widest road in the USA, the Katy Freeway is located in this state. This state contains the Edwards Plateau, and the largest city in this state is located on the Buffalo Bayou. This state's tallest point is Guadalupe Peak, and it produces much of its (*) oil in its Permian Basin.** The Brazos River runs through this state's town of Waco ("way-koah"). This state's Harris County contains its biggest city, which borders Galveston Bay. Big Bend National Park is named for a fittingly large bend in the Rio Grande river, which forms this state's border with Mexico. Galveston and Corpus Christi are often hit with hurricanes in, for 10 points, what state containing cities such as El Paso and Dallas?

ANSWER: **Texas** [do NOT accept or prompt on the "Republic of Texas"] <Geography - US, NSa/AG>

6. A goniometer ("go-nee-aw-mutter") orients substances at certain angles for them to be subjected to beams of this phenomena in a namesake technique. These phenomena were discovered in an experiment in which a barium platinocyanide screen was set up against a Crookes tube. That accidental discovery was made by Wilhelm (*) Röntgen ("wrong-chen"). Rosalind Franklin used these phenomena's namesake crystallography to produce an image of DNA that highlighted its double-helical structure. These phenomena have shorter wavelengths than ultraviolet rays, yet longer wavelengths than gamma rays. For 10 points, name these phenomena, often used by medical professionals to image bones.

ANSWER: X-rays [accept X-ray crystallography or X-ray diffraction; accept Röntgen rays until "Röntgen"] <Science - Physics, ST>

7. William Butler Yeats wrote about an "Irish" member of this occupation who "Foresees his Death." Joe Keller kills himself after a shipment of faulty cylinder heads leads to the death of members of this occupation in *All My Sons*. A member of this occupation drew a misinterpreted picture of a snake eating an elephant, and draws a box with a sheep inside for a resident of (*) Asteroid B-612. In one novel, characters of this occupation are served by Milo Minderbinder and are trapped by the title clause. For 10 points, name this occupation of Yossarian in *Catch-22*, who served with the 256 Squadron of the Army Air Forces.

ANSWER: pilots [or airmen; accept An Irish Airman Foresees His Death; prompt on soldiers] <Literature - World, CG>

8. This deity became fond of the son of Queen Astarte and put him in a fire to burn his mortality away. That son was Prince Dictys. The center of this deity's cult is in Philae ("fye-lee"), and this deity is often depicted with a throne-sign headdress. Seven scorpions guarded this deity during her pregnancy with a god that often rivaled (*) Set. A knot called the *tyet* ("tee-et") represents this goddess. This goddess formed a serpent out of clay and Ra's spit and made the serpent bite Ra to reveal his secret name. This goddess revived her husband after thirteen of his body pieces had been assembled. For 10 points, name this mother of Horus and wife of Osiris.

ANSWER: Isis <RMPSS - Mythology, AK>

9. The opening scene of this song's music video depicts a man jumping into the water from a great height at a summer party. This song's subject is described as a "cowboy kid" with a "rolled cigarette." The narrator of this song talks about how "Daddy works a long day" and how "dinner's in the kitchen and it's packed in ice." A member of the band that released this song, Cubbie Fink, had a cousin who survived an event at (*) Columbine, partly providing the inspiration for it. This song is about a boy named Robert, who finds a "six-shooter gun" in his dad's closet. For 10 points, name this song from the album *Torches* by Foster The People, about a school shooter.

ANSWER: Pumped Up Kicks <Trash/Other, DH>

10. This non-American figure turned down an offer from William Seward and Abraham Lincoln to receive a Major General's commission in the American Civil War. Earlier in their career, this figure fought to support Brazilian rebels in the Ragamuffin War, during which they met their spouse Anita. This person later commanded a volunteer force during the Franco-Prussian war called the Army of the Vosges ("vuh-oh-zh"), and he also led a force called the (*) Hunters of the Alps. This man, who feuded with Count Cavour, is most famous for defeating the Kingdom of the Two Sicilies during his Expedition of a Thousand. For 10 points, name this Italian general who led the Redshirts in a campaign to unify Italy.

ANSWER: Giuseppe Maria Garibaldi <History - European, DH>

11. **One member of this family gets a strong fever after her mother encourages her to ride on horseback to her love interest's house, despite heavy rain. When discussing that member of this family, one man tells another he is "dancing with the only handsome girl in the room." That man then claims another member of this family is "tolerable, but not handsome enough to tempt me." While one member of this family vacations with her aunt and uncle, the (*) Gardiners, her sister Lydia elopes with Wickham. This family's friend, Charlotte Lucas, marries Mr. Collins. At the end of one novel, Bingley proposes to this family's eldest sister, Jane. For 10 points, Fitzwilliam Darcy marries Elizabeth, a member of what family in Jane Austen's *Pride and Prejudice*?**

ANSWER: the **Bennet** family [accept specific members like Jane **Bennet** or Elizabeth **Bennet** or Lydia **Bennet**; prompt on the **family** from *Pride and Prejudice* before mention] <Literature - British, AK>

12. **A caricature by this artist shows their patron Frederick Leyland with birdlike features sitting on a house and playing the piano. They're not Gustave Courbet ("cour-bay"), but this artist of *The Gold Scab* showed Joanna Hifferman holding a white flower and standing on a bearskin rug in *The White Girl*. This artist painted a fan-holding girl in a kimono in *Princess From the Land of Porcelain*, part of his (*) *Peacock Room*. This man sued critic John Ruskin for claiming he "[flung] a pot of paint in the public's face" in a painting of fireworks over London's Cremorne Gardens, subtitled *The Falling Rocket*. For 10 points, name this artist whose musically titled works include his "Nocturnes" and a painting of his mother, *Arrangement in Grey and Black*.**

ANSWER: James Abbott McNeill **Whistler** <Fine Arts - Visual, AL>

13. **The Sky100 is an observation deck on the tallest building of this city, which also contains the HSBC Building. The Star Ferry takes tourists across Victoria Harbor in this city. The Tsing Ma Bridge connects this city to Lantau Island. This city's Kai Tak airport was replaced by one now the main hub of (*) Cathay Pacific. The majority of this city is located on a peninsula, which also names a "walled city" within this city. That peninsula is the Kowloon peninsula. This city is south of Shenzhen, and the Pearl River Delta separates it with another "Special Administrative Region," Macao. For 10 points, name this city, which in 1997 was transferred from Britain to China.**

ANSWER: **Hong Kong** Special Administrative Region of the People's Republic of China [or **Xiang Gang**] <Geography - World, AG>

14. NOTE TO MODERATOR: *Read last line carefully.* **These compounds can act as ligands, a result of the Dewar-Chat-Duncanson model. The synthesis of these compounds from carbonyl components is achieved through the Wittig reaction. This compounds' isomerism is described by E-Z notation. Additions get attached to the most substituted carbon in these compounds by (*) Markovnikov's (MAR-call-nuh-kov'z") rule. The general chemical formula for these types of compounds is C_nH_{2n} and they are also known as olefins. Ethylene is the simplest one of these compounds. For 10 points, name this functional group with a carbon-carbon double bond, unlike alkynes ("AL-kyne-z") or alkanes ("AL-kane-z").**

ANSWER: **alkenes** ("AL-keen-z") [accept **olefins** before mention; do NOT accept or prompt on "alkanes" or "alkynes"] <Science - Chemistry, AZ>

15. **This politician fought a duel with John Randolph in which both escaped unscathed. As the National Republican party's nominee, this politician lost the 1832 presidential election to Andrew Jackson. Along with John Calhoun and Daniel Webster, this politician was said to have been a part of the "Great Triumvirate" of U.S. Congressmen. This politician embraced policies such as infrastructure spending and the recharter of a national bank in his (*) American System. As Speaker of the House, this man helped John Quincy Adams win the 1824 election in exchange for Adams appointing him as secretary of state in the "corrupt bargain." For 10 points, name this Kentucky politician and "Great Compromiser," a famous member of the Whig party.**

ANSWER: Henry Clay Sr. <History - American, DH>

16. **A concept in this religion compares naturalness to an uncut block. After the death of his wife, a figure in this religion compared death to the change in seasons while singing and hitting a tub. A deity important to this religion was born from a cosmic egg and separated heaven and earth. That deity is Pangu ("paw-n-goo"). A philosopher in this religion asked if he was dreaming of a (*) butterfly or if a butterfly was dreaming of him. That philosopher was Zhuangzi ("zh-wang-tse"). A concept in this religion concerning inactivity is "wu wei." The *Book of the Way* is a central text of, for 10 points, what Chinese religion, founded by Lao Tzu ("luh-ow-tsu")?**

ANSWER: Taoism [or Daoism] <RMPSS - Religion, AK>

17. **A politician from this country, William Amos, was caught naked during a Zoom call, and in a separate incident, urinated on camera. In 2021, after allegations of abusing her employees, Julie Payette, a politician from this country, resigned. A leader of this country grew a beard in solidarity with his constituents during the COVID-19 pandemic. The leader of this country was hit with a gavel during a campaign stop after calling a (*) September 2021 snap election. Jagmeet Singh leads the New Democratic Party in, for 10 points, what country with parties such as the Bloc Québécois ("BLOCK queb-ay-caw"), led by Justin Trudeau from capital Ottawa.**

ANSWER: Canada <Current Events, AG>

18. **This leader succeeded their father Bindusara after winning a war of succession against their brother Susima, who was supposedly killed by being thrown into a pit of burning charcoal. Allegedly, this leader had a palace that looked like a beautiful garden but was actually a torture chamber, their namesake "hell." This person was known for his 24-spoked "wheel of righteousness," and ordered the building of a statue of four (*) lions at Sarnath. This man referred to himself as "Beloved of the Gods" in many of his Rock Edicts. This man, the grandson of Chandragupta, converted to Buddhism after the brutal Kalinga war. For 10 points, name this Mauryan emperor.**

ANSWER: Ashoka [accept Asoka] <History - World, DH>

19. **A poem by this author ends by describing a woman lying in a "tomb by the sounding sea" after being "chill[ed] and kill[ed]." This author also wrote a "paeon" ("pee-anne") to alarum, iron, silver, and gold objects that keep "time, time, time / in a sort of Runic rhyme." In another poem by this author, the narrator asks a "thing of evil" what its name is on the "night's Plutonian shore" and if there is (*) "balm in Gilead." That poem, which describes a "pallid bust of Pallas," focuses on a man grieving for "the lost Lenore" and a bird that cries "nevermore." For 10 points, what author of "Annabel Lee" and "The Bells" wrote the poem "The Raven?"**

ANSWER: Edgar Allen Poe <Literature - American, AG/CG>

20. **This quantity for an eigenspace is given by the multiplicity of its eigenvalue. This value for the domain is equal to the sum of this value of the image and kernel by the rank-nullity theorem. One method for finding this quantity is through the log-based box-counting method, and non-Euclidian fractals have a non-integer value of the Hausdorff form of this quantity. (*) Minkowski space has a value of 4 for this quantity, since it's a model for spacetime. In Euclidean geometry, this is defined as the number of coordinates needed to specify a point. For 10 points, name this property, which is 2 for a square and 3 for a cube.**

ANSWER: dimension <Science - Math, JQ>