

**2021 AQBL February
Packet 8**

1. **Three weeks before this battle, one of its armies fought a leader who based his claim to the throne on an agreement made by Magnus the Good and Canute III. The winning side in this battle feigned retreat to bring their opponents down Senlac Hill, and it was followed by the Harrying of the North. The Bayeux (*) tapestry depicts the losing commander of this battle dying after being shot in the eye. This battle's victor was crowned king on Christmas Day 1066 in Westminster Abbey. For 10 points, name this battle in which Harold Godwinson lost to William the Conqueror, establishing Norman rule of England.**
ANSWER: Battle of Hastings <MB, European History>

2. **Hesiod's *Works and Days* calls this figure a recipient of "plague[s] to men who eat bread." A daughter of this figure survives a great flood with her husband Deucalion. This figure married Epimetheus and gave birth to Pyrrha. This mortal, who was alternatively known as Anesidora and whose name means "all-gifted," was created as a punishment on mankind for (*) Prometheus's theft of fire. Zeus gave this figure an object that might have been a jar, of which only hope remains after she opened it. For 10 points, name this first woman from Greek mythology who released all the world's evils from her "box."**
ANSWER: Pandora <WZ, Mythology>

3. **The end of this poem claims "he prayeth best, who loveth best / all things both great and small." The narrator of this poem, who may have been inspired by William Wordsworth's sharing of Simon Hatley's story, states "I had done a hellish thing" before noting how "down dropt the breeze" before adding "day after day / we stuck, nor breath nor motion / as idle as a (*) painted ship / upon a painted ocean." The narrator sees a game of dice played by "Life-in-Death" when there is "water, water, everywhere / nor any drop to drink." For 10 points, name this poem narrated by a sailor who shoots an albatross, a work by Samuel Taylor Coleridge.**
ANSWER: "The Rime of the Ancient Mariner" <MB, British Literature>

4. **Muslim minorities revolted against this dynasty in the Dungan Revolt, while elements of the New Army did so in the Wuchang Uprising. This dynasty faced the Revolt of the Three Feudatories during the rule of the Kangxi Emperor, while another uprising against this dynasty was led by a man who failed the civil service examination and claimed to be the brother of Jesus. During this dynasty, who faced the (*) Taiping Rebellion, a siege of the Legation Quarter was put down by the Eight-Nation Alliance during a rebellion led by the Society of Righteous Harmonious Fists. The Xinhai Revolution overthrew, for 10 points, what successor to the Ming Dynasty, the final dynasty of China?**
ANSWER: Qing Dynasty <MB, World History>

5. **The Mundell-Tobin effect claims that this phenomenon has no direct relationship with interest rates. This quantity is represented by pi in the Fisher Equation. The Taylor rule states that interest rate should be determined from changes to this quantity. The Phillips Curve posits an inverse relationship between this phenomenon and (*) unemployment. This quantity, which can be measured using the CPI index, occurred in "hyper" varieties during the early 21st century. For 10 points, name this phenomenon where a unit of currency loses value over time.**
ANSWER: inflation <AK, Social Science>

6. **The GIM mechanism anticipated the existence of the fourth of these entities through induced FCNC suppression in loop diagrams. The CKM matrix details the mismatch of these objects' quantum states. A gauge theory that predicts interactions between these particles and gluons has SU(3) symmetry and is called quantum (*) chromodynamics.** The most massive of these particles was discovered in 1995 at Fermilab and has a charge of plus two-thirds. These fermions with spin one-half combine to form hadrons such as protons and neutrons. For 10 points, name these elementary particles that come in six flavors, including charm and strange.

ANSWER: quarks <DS, Physics>

7. **In a play by this author, a character with poor eyesight is kept at home but not tutored by her father; that character shoots herself in an attic where Old Ekdal shoots rabbits and keeps the title bird. In another play by this author, a character raises money for traveling to Italy by forging her father's signature on a loan, leading her to be blackmailed by the (*) bank employee Krogstad. A door slams at the end of that play by this author, in which Nora leaves her husband Torvald.** For 10 points, name this author of *The Wild Duck* and *A Doll's House*.

ANSWER: Henrik Ibsen <MB, European Literature>

8. **A character tries to tempt a maid using a mandolin in the aria "Deh, vieni alla finestra" in this opera; that character had earlier sang "La ci darem la mano" to Zerlina. The tenor aria "Il mio tesoro" is sung in this opera as a character implores Donna Anna that he will avenge her father. In this opera, Donna (*) Elvira is told that a man has won over 231 girls in Germany and 100 girls in France in the "catalogue aria," which is sung by Leporello.** For 10 points, name this Mozart opera in which a statue of the Commendatore drags the title nobleman to Hell.

ANSWER: Don Giovanni <AN, Other Fine Arts>

9. **This man's extensive study of color-blindness led to his claim that it is a hereditary disease, as both he and his brother had the condition. His idea of a "rule of greatest simplicity" led to his flawed assumption that a molecule of water has the chemical formula OH. His observations eventually led to the conclusion that substances must react in (*) small whole number ratios.** He proposed an atomic theory that classified atoms as small, indestructible pieces of matter, which was called the "billiard ball" model. This man names the SI unit for atomic mass. For 10 points, name this English scientist who names a law of partial pressures.

ANSWER: John Dalton <CS, Chemistry>

10. **In a painting by this artist, logging scars form Hebrew letters translating to "Noah" and "the Almighty." That painting includes a self-portrait of this artist with an easel, in between two rocks. This artist depicted the sacking of a classical city in *Destruction*, and a marble pillar covered in ivy in his (*) *Desolation*.** This artist depicted a thunderstorm over a forest and mountains yielding to clear skies over fields along the Connecticut River, which forms the title bend of that painting. For 10 points, name this Hudson River School artist of the *Course of Empire* series and *The Oxbow*.

ANSWER: Thomas Cole <MB, Visual Fine Arts>

11. **George Condo depicted this artist underneath a nude angel in one of his album covers. This artist, who first worked as a producer for Jay-Z, released a collaboration with T.I. of him “versus the people” because of his support for Donald Trump. A song by this artist describes us at “at war with terrorism, racism” and the Midwest as “young and (*) restless;” that song is “Jesus Walks.” This artist collaborated with Kid Cudi on the EP *Kids See Ghosts*, and recently started the Sunday Service Choir. For 10 points, name this rapper behind *My Beautiful Dark Twisted Fantasy* and *The College Dropout*, who is getting divorced from Kim Kardashian.**
ANSWER: **Kanye West** (prompt on Yeezy) <MB, Pop Culture>
12. **Smith-Lemli-Opitz syndrome is a genetic disorder that causes an inability to synthesize this molecule. De la Salle discovered this molecule in gallstones. This molecule’s synthesis begins with the mevalonate pathway, and statins lower levels of this molecule in the blood. By placing itself between phospholipids, this molecule maintains (*) fluidity in the cell membrane. Lipoproteins contain triglyceride and this molecule in their centers. A buildup of this molecule in the walls of arteries causes atherosclerosis. For 10 points, name this steroid hormone that can be found in LDL and HDL varieties.**
ANSWER: **cholesterol** <CS, Biology>
13. **The epigraph of this poem describes the Sibyl of Cumae saying “I want to die.” This poem’s narrator states “I will show you fear in a handful of dust,” and describes the clairvoyant Madame Sosostris as finding the “drowned Phoenician Sailor” and stating “fear death by water.” This poem states “London Bridge is (*) falling down” in its final section, *What the Thunder Said*, and, in *A Game of Chess*, repeats “HURRY UP PLEASE IT’S TIME.” This poem ends with the Sanskrit words “shantih shantih shantih.” For 10 points, name this five-section poem by T.S. Eliot, which begins “April is the cruellest month.”**
ANSWER: “The **Waste Land**” <MB, Other Literature>
14. **A protest against this law led to a riot and the sacking of Governor Thomas Hutchinson’s house. Remarks that “Julius had his Brutus and Charles his Cromwell” and a speech stating “if this be treason, make the most of it!” were made in the House of Burgesses about this law, the subject of a “Declaration of Rights and Grievances” written by a namesake (*) “Congress” that met in New York. This act was repealed alongside the issuance of the Declaratory Act after a series of boycotts. The slogan “no taxation without representation” was coined after, for 10 points, what British law establishing taxes on newspapers, playing cards, and other printed documents?**
ANSWER: **Stamp Act** 1765 (or **Duties in American Colonies Act 1765**) <MB, American History>
15. **This key is used for the first movement and the finale of a symphony that performs a variation on “Frere Jacques” in its third movement, Mahler’s “Titan” Symphony. Joseph Joachim was asked to write a violin cadenza for the first movement of Brahms’s violin concerto in this key. This key was used in the “Hallelujah” chorus by Handel, and it is the relative major of B (*) minor. The basso continuo plays a repeating two-bar sequence in a work in this key that is paired with a gigue. In addition to Elgar’s first Pomp and Circumstance March in this key, that piece is often played at graduations. For 10 points, name this key of Pachelbel’s Canon, a major key with two sharps.**
ANSWER: **D major** <MB, Auditory Fine Arts>

16. **Initiation ceremonies in this religion include the use of a *bila* altar and taking down necklaces known as *kolyes*. This religion describes two different aspects of the soul; the “big” and “little” angels. In this religion, the Kanzo Ceremony can be used to initiate *houngan* priests and (*) *mambo* priestesses. Marasa is considered to be the first child of this religion’s supreme god, Bondye. Papa Legba serves as an intermediate between members of this religion and their *loa*. For 10 points, name this Haitian religion known for its namesake dolls.**
ANSWER: Voodoo <AK, Religion>
17. **Amplitude amplification is a technique in quantum computing that generalizes an algorithm used to accomplish this task. That algorithm has a complexity of big O of square root of N, and is called Grover’s algorithm. The “Fibonacci” algorithm for accomplishing this task uses a divide and conquer technique and has a worst-case runtime of big O of log N. AVL and red-black trees perform this action, which can be performed (*) depth-first or breadth-first. The “binary” variety of this task works by calculating a midpoint and comparing it to the desired value and is more efficient than its “linear” form. For 10 points, identify this task accomplished by namesake “engines” such as Bing and Google.**
ANSWER: searching (accept specific types) <DS, Computer Science>
18. **In this country, Mercedes Araoz resigned a day after being named interim President when its President attempted to dissolve Congress for an alleged admission of no confidence. Another leader of this country resigned after members of its congress were shown offering bribes in the Kenjivideos [Kenji videos] scandal; that leader was Pedro Pablo Kuczynski. Keiko (*) Fujimori leads the opposition in this country, whose President Martin Vizcarra was impeached for “moral incapacity” in November 2020. For 10 points, name this South American country led by Francisco Sagasti from Lima.**
ANSWER: Republic of Peru <MB, Current Events>
19. **The ruins of this civilization were documented by Charles Masson, who deserted from the private army of a joint-stock company. This civilization was succeeded by the Cemetery H culture and was preceded by the settlement and archaeological site of Mehrgarh. The Dancing Girl statuette was unearthed in a city of this civilization that included the Great Bath and flushable toilets, part of the world’s earliest (*) sanitation system. Another site from this civilization was damaged by the British Raj’s construction of a railroad to Lahore. Harappa and Mohenjo-Daro were the primary cities of, for 10 points, what Bronze Age civilization based around a river in modern-day Pakistan?**
ANSWER: Indus River Valley Civilization <MB, Other History>
20. **This author’s only comedy is set on July 4th and takes its name from a line in Omar Khayyam’s *Rubaiyat*. In a play by this author, the sound of a foghorn confuses one character who later complains to Cathleen about it. In a work by this author of *Ah, Wilderness!* Larry Slade is horrified by the suicide of Don Parritt; in that play, by this author Harry (*) Hope encourages drunks to abandon their “pipe dreams”. In another play by this author, Mary’s morphine addiction wrestles with the Tyrone family. For 10 points, name this American playwright of *Iceman Cometh* and *Long Day’s Journey into the Night*.**
ANSWER: Eugene O’Neill <AK, Literature>

Tiebreaker/Extra Question

Well-preserved murals of this ruler and his wife can be found in the Basilica di San Vitale of Ravenna. A historian recounted the campaigns of one of this ruler's generals in *History of The Wars*; that historian would later write the slanderous *Secret History* about this ruler, which includes lurid details about his wife (*) Theodora. This ruler's advisor John the Cappadocian helped him develop the *Corpus Juris Civilis*, and he also instituted new taxes that would cause charioteers to revolt during the Nika Riots. For 10 points, name this Byzantine Emperor who developed a namesake law code and built the Hagia Sophia.

ANSWER: **Justinian I** (or **Justinian the Great**; prompt on Justinian)<HP, Other History>