

Questions by Valencia C (Zoran, Sayed, et al.) and Berkeley (Juliana Froggatt, Jeff Hoppes, Larissa Kelly, Paul Lujan, Ray Luo, and Seth Teitler) with some from Jason Thweatt, Eric Douglass, Roger Craig, & your genial QM

1. Albert Parsons, August Spies, George Engel, and Adolph Fischer were executed for their alleged role. Louis Lingg committed suicide before his execution. Samuel Fielden and Michael Schwab had their sentences commuted to life in prison by Illinois governor Richard Ogelsby, and Fielden, Schwab, and Oscar Neebe were later pardoned by Ogelsby's successor, John Altgeld – an act of conscience that ended Altgeld's political career. The event occurred in the wake of a May 1866 protest over the deaths of four strikers at the McCormick Harvester plant. For 10 points, name the Chicago riot where a bomb thrown at policemen from a nearby building killed eleven people.

Answer: **Haymarket Square riot**

2. The rationalized value of it, is used in quantum-mechanical calculations by dividing it by 2 pi. It was discovered by a professor of physics at university of Berlin for which he received his 1918 Nobel. FTP name this constant with the units of Joules seconds, used to formulate the intensity of light of various frequencies emitted by a hot solid at different temperature.

Answer: **Planck's constant**

3. The son of Capys and a descendant of the Trojan royal family, he was king of Dardania and legend has it that he founded Padua. Known for his six remarkable horses, which he acquired by secretly mating his mares with Laomedon's stallions, he is more famous for having a tryst with Aphrodite after she appeared to him while he was tending sheep at Mount Ida. He made the mistake of bragging about this affair and was blinded by Zeus. Most famous for being carried out of the ruins of Troy by his son, FTP identify this father of Aeneas.

Answer: **Anchises**

4. Nellie Fox instructed this man to flap his arm while at bat as a timing mechanism. He played minor league ball in the Houston Colt '45s organization before winning Rookie of the Year in 1965 with the renamed Astros. He had a record 7 straight All-Star games with a hit, played 92 consecutive games without an error, and finished his career in 1982 with the most home runs ever by a second baseman. Known to today's youth for being an awful color analyst on ESPN, FTP identify this Cincinnati Reds great.

Answer: **Joe Morgan**

5. This composer's first major attempt at composition came with "Das Klagende Lied" which he entered in a competition as an opera. During his life he held numerous conducting jobs, in European cities including Ljubljana in 1881. Later in his life his wife Alma had an affair with her future husband Walter Gropius. His small house on the Wörthersee is where he composed his symphonies 2 through 8. His tenth symphony was unfinished. FTP name this Austrian romantic composer of the "Das lied von der Erde".

Answer: Gustav **Mahler**

6. One faction of this movement, the Ultraquists, itself divided into a New and Old sub factions, with the Old faction remaining loyal to the Catholic Church through the *Compactata* and the New faction joining the Lutherans under the *Confessio Bohemia*. This movement's other main faction, the Taborites, followed radical leaders such as John Zizka and Procopius the Great. The first significant attack against the authority of the Catholic Church, FTP identify this Bohemian and Moravian religious reform movement.

Answer: **Hussites**

7. Assembled from a double helical chain of globular proteins, it maintains the internal structure of microvilli and is responsible for cytoplasmic streaming and pseudopodic cellular extensions. Networks are formed by binding proteins like spectrin and ankyrin that interact with G actin units from multiple strands. The component of the cytoskeleton with the smallest diameter, FTP, name this strand of protein actin that changes cell shape and drives muscle action.

Answer: **microfilament** (accept before actin is mentioned: actin filament)

8. This author's story collection *Youth and the Bright Medusa* included the much-anthologized "Paul's Case," which – like *Lucy Gayheart* and *The Song of the Lark* – reflected the struggle of a talented writer to escape stifling small-town convention. On the other hand, she bemoaned the passing of that small-town life and the frontier spirit in *A Lost Lady* and the Pulitzer-winning *One of Ours*. FTP name the author of *Death Comes for the Archbishop* and *My Antonia*.

Answer: Willa **Cather**

9. Imprisoned in the USSR in 1940 & 1941, he was wanted by the British for terrorist activities. He was responsible for the 1947 bombing of the King David Hotel and heavily involved in illegal arms shipments into Israel until the new nation's Prime Minister, David Ben-Gurion, authorized gunfire to sink the smuggling ship *Altalena*. All this would surprise most modern observers, who know him as a Nobel Peace Prize winner and not as the former head of the militant Irgun. FTP name this late Prime Minister of Israel, who shared the 1978 Nobel with Anwar Sadat.

Answer: Menachem **Begin**

10. The first European to cross the forbidden waste was Diego de Almagro, in 1537. From then until the middle of the 19th century it was largely ignored, but with the discovery of the use of sodium nitrate as a fertilizer and later with the invention of smokeless powder using nitroglycerin, the desert had a mining boom. This led to the War of the Pacific, which left all of it in Chilean hands. FTP, name this desert in South America, the driest in the world.

Answer: **Atacama** Desert

11. His *Tour thro' the Whole Island of Great Britain*, published in 1724, displayed an appreciation for the "busy and diligent" areas of textile trade while scorning the Lake District as "all barren and wild, of no use or advantage." His poetic account of the true-born Englishman pronounced that title figure "in speech an irony, in fact a fiction." FTP, name this author of *A Journal of the Plague Year*, *Moll Flanders*, and *Robinson Crusoe*.

Answer: Daniel **Defoe**

12. The van't Hoff equation for osmotic pressure reduces to this expression when the solvent is taken to be a vacuum. Fugacity is a temperature-dependent fudge factor used to make real systems obey this relation. Deviations due to long-range attractive forces and short-range repulsive forces are accounted for in the van der Waals equation of state. FTP, name this relation which states that pV equals nRT .

Answer: **ideal gas** law or equation or relation (accept: $pV=nRT$ or $pV=NkT$ before the end of the question)

13. His subject matter comes primarily from Chadd's Ford in the Brandywine Valley and the areas near Cushing, Maine. Known for works such as "Nicholas" and "The Trodden Weed," he received the Presidential Freedom Award in 1963, the first painter to be so honored. FTP, name this watercolor artist, best known for "Christina's World."

Answer: Andrew **Wyeth**

14. After being arrested, its namesake leader claimed immunity from prosecution as the rightful governor of his state, which wasn't a baseless claim considering that he received 14,000 votes, twice as many as the charter government's candidate Samuel King. However, the charter government received support from President Tyler and, in *Luther v. Borden*, the Supreme Court refused to hear its leader's case. Doomed after a failed assault on the Providence Armory, FTP identify this 1841 revolt against the undemocratic political system of Rhode Island.

Answer: **Dorr's** Rebellion

15. High school all-American Neely Crenshaw was probably the best quarterback ever to play for the legendary Messina Spartans. Fifteen years have gone by since those glory days, and Neely has come home to Messina to bury Coach Eddie Rake, the man who molded the Spartans into an unbeatable football dynasty. Now, as Coach Rake's "boys" sit in the stadium waiting for the dimming field lights to signal his passing, they replay the old games, relive the old glories, and try to decide once and for all whether they love Eddie Rake – or hate him. FTP, name this book by John Grisham.

Answer: **Bleachers**

16. It is visible to the naked eye and has an angular area larger than that of the full moon. The central parts are extremely bright, and some stars can be embedded in the nebulosity. Because of the nebula's large size, light from stars cannot illuminate all of the associated interstellar gas and dust. Thus, parts of it appear blacker than the surrounding sky. FTP, name this bright, diffused nebula in the southern constellation Sagittarius, cataloged as M8 or NGC 6526.

Answer: **Lagoon** Nebula

17. The first public performance of “God Save the Queen” – actually, at the time “King” -- was made to commemorate Admiral Edward Vernon’s success in this war. One of the key actions in this war was the attack by six ships on the silver exporting town of Porto Bello. It all started when The British Prime Minister, Robert Walpole, reluctantly declared war on October 23, 1739, to Spain. FTP name this war named after an “accessory” of the British captain of the ship *Rebecca*.

Answer: War of **Jenkins’ Ear**

18. It is divided into four sections, the last of which is the Videvdāt, a detailed code of ritual purification. Apocryphal legend holds that its full text was destroyed by Alexander the Great when he conquered Persia. The oldest part is the Gathas, a collection hymns believed to be written by the big Z himself. FTP name this holy book of Zoroastrianism.

Answer: **Avesta** or Zend Avesta

19. Born in Basildon, he initially studied law, but illness forced him to work on his father’s farm. Part of a group that founded the Norfolk system, his greatest invention was inspired by an organ he had once dissembled. In his 1733 book, *The Horse-Hoeing Husbandry*, he advocated the use of manures, pulverizing the soil, and thorough tilling during the growing period. FTP, name this English agriculturist, the inventor of the seed drill.

Answer: Jethro **Tull**

20. An unlikely defender, Joseph Goebbels, helped blunt the harsh criticism this author received for his strong and explicitly stated pacifist beliefs. His early life was characterized with confusion and uncertainty, from which two divorces resulted, after which he settled with his third wife Ninin Dolbin in 1931. His first works like “Beneath the Wheel” exhibit neoromantic style; however, that would end with his realistic novel *Rosshalde*. Psychological treatment with a follower of Jung, would influence this author’s second stage works like *Demian*. FTP who is this Swiss author of *Siddhartha* and *Steppenwolf*?

Answer: Hermann **Hesse**

21. He was born in a small village called Tauresina (Taor) in Illyricum (near Skopje). Some of the writings assigned to him are “An edict on Origen’s Heterodoxies”, and “An edict on the Three Chapters”, probably from 551 AD. “Secret History” by Procopius was written about various scandals in his court. His decisions were often seen as scandalous, an example of which is his passing of a law that would allow one to marry intersocially. FTP name this emperor who had Belisarius as his main war commander, and Theodora as his wife.

Answer: **Justinian I**

22. Discovered in late 1950’s in cosmic ray experiments, it is a hadron created through strong interactions but decays slowly. To explain its properties, a new quantum number was introduced. FTP name this particle which is namesake of the quantum number which is conserved in particle decay which involve strong interaction & electromagnetic interaction but not those involve the weak interaction.

Answer: **Strange** particle

23. This composer received his early musical training with the local musician Provesti. Later on, he held the post of assistant conductor for the Busseto Philharmonic. It was in this town where he created his first works “Luisa Miller”, and his first opera “Oberto, conte di San Bonifacio”. The “Manzoni Requiem” is an exception from this composer’s favorite, the opera. Some of his more famous operas are “Les Vepres Siciliennes”, and “Don Carlos” FTP, name this composer of such masterpieces like, “Otello”, and “Aida”

Answer: Giuseppe **Verdi**

24. After its victory at the battle of Eurymedon, members such as Naxos and Thasos unsuccessfully attempted to leave it. After its treasury was transported from its namesake island to the Acropolis, it had in effect become an Athenian empire and it was destroyed by Phillip II’s victory at the battle of Chaeronea. FTP identify this group of Greek city-states originally formed as a defensive alliance against Persia.

Answer: **Delian** League

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1. Answer the following about a particular author FTPE:

While better known for novels, this man also wrote the poetry collections *The Marble Faun* and *A Green Bough*.

Answer: William **Faulkner**

This is the name of Faulkner's mythical county in Mississippi.

Answer: **Yoknapatawpha** [be lenient on pronunciation]

This book centers on Thomas Sutpen as he tries to gain acceptance by southern aristocracy via a slave-driven empire.

Answer: **Absalom, Absalom!**

2. Name these moduli used to find different deformation for ten points each

A. Ratio of the pressure on a body to its fractional decrease in volume.

Answer: **Bulk** modulus

B. The tangential force per unit area divided by the angular deformation in radians.

Answer: **Shear** Modulus (accept rigidity)

C. Ratio of stress to strain

Answer: **Young's** modulus

3. Given a condensed version of a decision involving schools, name the Supreme Court Case for ten points each
"Separate but equal" isn't equal, so stop segregation with all deliberate speed.

Answer: **Brown v Board of Education** of Topeka, Kansas

School prayer, even non-compulsory and fairly non-denominational, promotes religion and is thus unconstitutional

Answer: **Engel v. Vitale**

Principals are editors in Chiefs of High School News

Answer: **Hazelwood v Des Moines School District**

4. F5PE or 30 for all 5, given the following countries, name the capitals with something in common:

a) The Bahamas

Answer: **Nassau**

a) Chad

Answer: **N'djamena**

c) Cyprus

Answer: **Nicosia** [accept Lefkosia]

d) Mauritania

Answer: **Nouakchott**

e) Tonga

Answer: **Nuku'alofa**

5. Name this romantic composers from their works FTPE.

a. Harold in Italy, Symphony Fantastique

Answer: Hector **Berlioz**

b. Capriccio Espagnol, The Tale of Tzar Saltan

Answer: Nicolai **Rimsky-Korsakov**

c. Symphony Spring, Symphony Renish

Answer: Robert **Schumann**

6. Name these post WW II German chancellors FTPE, none of whom is Helmut Kohl or Gerhard Schröder.

a. He was the first chancellor to lead Germany after the "War", he held this post until 1963.

Answer: Konrad **Adenauer**

b. This Social Democrat won the 1971 Nobel Peace Prize for efforts to improve relations with East Germany & the USSR.

Answer: Willy **Brandt**

c. Again this Social Democrat, succeeded Willy Brandt, to be the last chancellor before the great Helmut Kohl.

Answer: Helmut **Schmidt**

7. For five points each and bonus 5 for all correct, given a sentence, tell if it describes DNA, RNA, both or neither.

[5] It contains uracil.

Answer: **RNA**

[5] Is present in HIV.

Answer: **RNA**

[5] It contains sulfur.

Answer: **neither**

[5] Is present in ribosomes.

Answer: **RNA**

[5] Contains phosphorous.

Answer: **both**

8. On a 10-5 basis, name the music groups who sing these songs.

a) 10 pts.: "Tourniquet", "Going Under"

5 pts.: "My Immortal", "Bring Me to Life"

Answer: **Evanescence**

b) 10 pts.: "Hey Mama"

5 pts.: "Shut Up", "Where Is the Love"

Answer: **The Black Eyed Peas**

c) 10 pts.: "Feeling This", "I Miss You"

5 pts.: "All the Small Things"

Answer: **Blink 182**

9. Answer these questions about *Othello* FTPE.

A. The play opens in this city, which has engaged Othello to fight the Turks.

Answer: **Venice**

B. Desdemona's doom is sealed when her maid Emilia steals this object and gives it to Iago.

Answer: **her handkerchief** (or napkin)

C. Iago accuses Desdemona of sleeping with this man, Othello's lieutenant.

Answer: **Michael Cassio**

10. He is named by the pharaoh's daughter for she drew him out of the water. The son of a descendant of Levi, he was concealed for three months before being put in a basket among the reeds by the bank of the Nile. FTSNOP.

A. (5) Name this Biblical figure saved from the Egyptians.

Answer: **Moses**

B. (10) After murdering an Egyptian overseer, Moses escaped and settled in this land, where he drove away the shepherds and helped the seven daughters of the priest water their sheep.

Answer: **Midian**

C. (5) On Mount Horeb, Moses saw God in the burning bush, who assigned this Levite to Moses to do all the speaking for him.

Answer: **Aaron**

D. (10) Moses married this daughter of Jethro, the priest of Midian.

Answer: **Zipporah**

11. Name these leaders of Athens during the Peloponnesian War, FTPE.

A. This man arranged the 449 BCE peace with Persia that allowed him to transfer the Delian League's funds directly to Athens - money used to build the Parthenon and the Long Walls.

Answer: **Pericles**

B. After Cleon died in battle and his war party was discredited, this man negotiated the prospective 30-year truce with Sparta which bears his name. In actuality, the truce ended after 7 years.

Answer: **Nicias**

C. This man, Pericles' nephew, was the architect of the Sicilian Expedition. On his way to that island, however, he was accused of defacing statues in Athens, so he defected to Sparta where he revealed the Athenians' plans.

Answer: **Alcibiades**

12. Name the following regions of the Earth, 5-10-15.

A. The surface tectonic plates are dragged along by convection in this large layer below the crust.

Answer: the **mantle**

B. All weather phenomena occur in this lowest layer of Earth's atmosphere.

Answer: the **troposphere**

C. Convection in this fluid region just below the mantle generates the geomagnetic field. Below it lies a solid ball composed primarily of iron and nickel.

Answer: the **outer core**

13. Answer the following on relativistic effects FTPE.

A. General relativity predicts this effect, that rotating bodies distort space-time in their vicinity.

Answer: **frame dragging**

B. The twin paradox relies on this phenomenon, in which time intervals measured by a moving clock are always longer than the proper time interval.

Answer: **time dilation**

C. Special relativity predicts a transverse form of this phenomenon, in which the emitted wavelength from a moving source is shifted relative to the proper wavelength.

Answer: **Doppler shift** (or: Doppler effect)

14. Name these works by Thomas Mann, FTPE.

A. A tetralogy of a biblical tale of the man who, abandoned for dead, survives and comes to power in Egypt.

Answer: **Joseph and His Brothers**

B. The composer Adrian Leverkühn makes a pact with the devil to become aware of the extremes of his personality, thus enriching his twelve-tone music.

Answer: **Doctor Faustus**

C. The last and most comical work of Mann depicts the artist as a confidence man who uses his skills and ironic insight to manipulate society.

Answer: **The Confessions of Felix Krull**

15. Name these Italian painters, FTPE.

[10] This Venetian master was born with the surname Vecellio. His works include the *Pesaro Altarpiece* and the paintings *Sacred and Profane Love* and *Venus of Urbino*.

Answer: **Titian**

[10] Important works by this onetime apprentice to Ghiberti include the cycle *Noah* for Santa Maria Novella and his *Battle of San Romano*.

Answer: Paolo **Uccello**

[10] Born Giovanni Barbieri, he studied with Ludovico Carracci. He painted the *Burial of St. Petronilla* and the ceiling frescos of the Casino Ludovisi.

Answer: **Guercino**

16. Given a character played by Humphrey Bogart, name the film in which he appeared, 5-10-20-30.

A. Charlie Allnut

Answer: **The African Queen**

B. Rick Blaine

Answer: **Casablanca**

C. Fred C. Dobbs

Answer: **The Treasure of the Sierra Madre**

D. Linus Larrabee

Answer: **Sabrina** (accept: Sabrina Fair, the UK title)

17. Name these storm gods, 5-10-15.

A. This strong Norse god of thunder wields the hammer Mjolnir.

Answer: **Thor**

B. This chief Babylonian god gained supreme power by defeating Tiamat.

Answer: **Marduk**

C. Name either Amaterasu's brother, the main Shinto storm god, or his helper, a god of thunder and lightning who appears in a series of Midway video games.

Answer: **Susanoo or Susanowo; or Raiden or Rayden**

18. On a 5-10-20-30 basis, given two poems, name the British Poet Laureate who wrote them:

a) "Tintern Abbey" and "Ode: Intimations of Immortality"

Answer: **William Wordsworth**

b) "Absalom and Achitophel" and "Mac Flecknoe"

Answer: **John Dryden**

c) "Reynard the Fox" and "Sea Fever"

Answer: **John Masefield**

d) "The Eagle" and "Crossing the Bar"

Answer: **Alfred, Lord Tennyson**

19. Name these things about the War of the Spanish Succession for the stated number of points.

a. For five points each name the English "duke" and the Austrian "prince" that led their troops in the war against the united forces of Spain and France

Answer: **John Churchill** (or the 1st Duke of **Marlborough**), and **Eugene of Savoy**

b. For five points each name the peace that finished this war and the year in which it was signed.

Answer: **Treaty (or Peace) of Utrecht, 1713.**

c. Finally again for five points each name the two formerly Spanish land possessions given to Britain with the signing of the Treaty of Utrecht.

Answer: **Gibraltar and Minorca**

20. Answer the following with regards to pH of a solution

A. What is the pH of human blood? 10 pts. if correct to the nearest tenth; 5 points if within five-tenths.

Answer: **7.4** [5 points for values from 6.9 to 7.9]

B. If a solution has a pH of 6 what is the molar concentration of hydronium ions in the solution?

Answer: **1×10^{-6} (one times ten raise to power negative six)**

C. Amino acids are examples of these substances which can help maintain the pH of any solution because they can act simultaneously as an acid and a base.

Answer: **zwitterions**

21. Are there angels in the outfield? No but there are some in the Koran. Given a description name the archangel 5-10-20-30:

a) The champion of Faith

Answer: **Michael**

b) The Angel of Revelations

Answer: **Gabriel**

c) The Angel of Death

Answer: **Azrael**

d) Sounds the Trumpet of Resurrection

Answer: **Israfel**

22. Given a Constitutional Amendment, give the year it was ratified, FTPE. If you're within 2 years you'll get 5 pts.

[10] No congressional pay raises are effective until after intervening election.

Answer: **1992**

[10] Prohibition is enacted by the 18th amendment.

Answer: **1919**

[10] The 16th amendment legalizes Federal income tax.

Answer: **1913**

23. FTPE name the following types of meter used in poetry given the following descriptions:

A stressed followed by an unstressed syllable:

Answer: **trochaic**

Two successive unstressed or lightly stressed syllables:

Answer: **pyrrhic**

Two unstressed syllables followed by a stressed syllable:

Answer: **anapestic**

24. We've all dreamed of living in castles. FTPE try to identify these French castles based on their locations.

a) This is Ludwig II's fantasy castle nestled high in the Bavarian Alps above the Pöllat River gorge; it was Disney's inspiration for his Sleeping Beauty castle.

Answer: **Neuschwanstein** (new-shwann-stein)

b) The river below this castle--located on an island of its namesake--marks the historic border between Brittany and Normandy, who have long vied for this castle. (In fact, the river used to pass it on the other side, making the abbey mostly part of Brittany)

Answer: **Mont St. Michel**

c) This castle used to belong to Catherine de Medici and is located in the Loire River Valley, right on the banks of the river Cher.

Answer: **Chenonceau**