

1989 Masters

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IQ's

1. First proposed by Alexander Hamilton, and not surprisingly opposed by Thomas Jefferson, they were the decisive issue in the US presidential election of 1832. The first lasting from 1791 to 1811 and the second from 1816 to 1836, for 10 points, what were these central reserves which sold government debt and loaned funds to state banks, but which fell victim to anti-elitist sentiment?

Answer: Banks of the United States (if national banks given, ask for more information)

2. More a term of derision than an description of a school, this name was taken from Leslie Allen Paul's autobiography. It was generally used in the 1950s to describe Colin Wilson, Alan Sillitoe, John Osborne, Kingsley Amis and others whose fiction bitterly criticized English culture, social structure and almost everything else. FTP, give the collective name for the group.

Answer: Angry Young Men

3. In organic chemistry, this common laboratory acid is used to convert nitric acid into the nitronium ion in the nitration of aromatic compounds. It is even more commonly used in industry, where its production and use is a prime measure of industrial activity. FTP, name this compound, the most widely produced industrial reagent in the world, which can be formed in nature by water and sulfur dioxide.

Answer: Sulfuric acid or H2SO4

4. On April 28, 1989, he doubled in the ninth inning to break up a no-hitter by Kirk McCaskill. On April 30, 1989, he singled with two outs in the fifth to stop Mike Witt. On May 23, 1989, he struck again with a single in the sixth inning to break up another no-hitter. His most famous hit this year, however, occurred on April 23, 1989, when he tripled with one out in the ninth to prevent a record sixth no-hitter by Nolan Ryan. FTP, name this spoilsport outfielder of the Toronto Blue Jays.

Answer: Nelson Liriano

5. His academic career includes a history of Hassidism and his promotion of the Jewish kibbutz as an utopian ideal. However, he is best known for his philosophy of dialogues, that man's relationship with other men are usually only partial, which he called I-It, but should be complete like man's relationship with God, or I-Thou. FTP, name this 20th century German-Jewish philosopher.

Answer: Martin Buber

6. He entered politics with his election to the Duma in 1906, but it was his organization of successful voluntary relief efforts in the Russo-Japanese War and World War I which gave him the name recognition and respect that earned him the position of premier in the provisional government in March 1917. FTP, name this statesman whose reformist administration was undermined by Bolshevik rabble-rousing, forcing his resignation in favor of Kerensky in July.

Answer: Prince Georgy Lvov

7. Consider the plot of the following play: an old man and his son both love a young woman. The young woman's father and brother, who do not know that they are related, are both in love with another young woman, who happens to be the old man's daughter. Confused yet? Eventually everyone gets sorted out and lives happily ever after, including the old man, Harpagon, who gets what he wants most--his money. FTP, name this Moliere comedy.

Answer: The Miser or L'Avare

8. An annual is a plant which germinates from a seed and dies within a year, and a perennial is a plant which lives on from year to year for several years. For 10 points, however, what name is given to plants which have very short life cycles, several generations coming to fruition and perishing within a single year?

Answer: ephemerals

9. The second stanza of this famous nursery rhyme with a historical basis begins "Set a man to watch the night . . ." However, the verse does not refer to a night watchman, but to a human sacrifice that ancient Celts offered to appease the gods that controlled such things as man-made structures. FTP, what is the first line of the rhyme which explains why such drastic steps were taken, in order to prevent a recurrence of the loss of a thoroughfare across the Thames River.

Answer: London Bridge is Falling Down

10. The first black man to be one was abolitionist Frederick Douglass, so it was appropriate that they should escort black students into schools at the beginning of segregation. Organized by George Washington in 1789, they report to the US Attorney General. For 10 points, what is this corps of lawmen whose ranks have included Heck Thomas and Wyatt Earp, but not James Arness?

Answer: U. S. Marshals

11. The name's the same: one is an autonomous region in the northwestern corner of Spain comprising the provinces of Lugo, La Coruna, Pontevedra and Orense. The other is a region directly north of the Carpathian Mountains and east of Silesia containing the cities of Krakow and Lvov; now split between Poland and the Ukrainian S.S.R., it was formerly controlled by Austria-Hungary and was the site of the major campaigns in World War I including the 1916 Brusilov Offensive. FTP, give the common name.

Answer: Galicia

11~~2~~. Pen and paper might be helpful on this question. (MODERATOR-- READ SLOWLY) $X' = \frac{X - VT}{\sqrt{1 - \beta^2}}$ and $T' = \frac{T - VX}{c^2 \sqrt{1 - \beta^2}}$. This is one possible statement of a series of relations describing the relativistic effects of motion several years before Einstein's special theory of relativity. FTP, name these equations named after the Dutch physicist who developed them.

Answer: Lorentz transformations

12~~3~~. It was updated in 1986, twenty years after its original release, with its original principals: Jean-Louis Trintignant and Anouk Aimee. The winner of the Golden Palm at the 1966 Cannes Film Festival as well as the Best Foreign Film Oscar, for 10 points, what was this international blockbuster concerning the torrid, yet tender, love affair between a racing car driver and a beautiful young script girl?

Answer: "Un Homme et une Femme" (or "A Man and a Woman")

13~~4~~. A deputy of the National Convention during the French Revolution, he voted for the execution of Louis XVI. After the fall of his patron, Robespierre, he painted his only landscape, "View of the Luxembourg Gardens," from a jail cell. Abandoning the then prevalent rococo motifs, he returned to classical themes in "Belisarius Asking Alms" and "Andromache Mourning Hector." FTP, name this major exponent of French neoclassicism who practically started the movement in France with his "Oath of the Horatii."

Answer: Jacques-Louis David

14~~5~~. You would definitely look in a game of Clue if you wanted to find Professor Plum; but if you wanted to find Lord Plumb, your search would be more difficult, because you would first have to decide whether to look in Brussels, Belgium or Strassbourg, France. For 10 points, of what nascent body, the members of which must shuttle between those two cities, is Lord Plumb the current president?

Answer: the European parliament (or Euro-parliament)

15~~6~~. Traditionally translated as "the Glory has departed", it was the name given by the wife of Phinehas to their son when she learned that her husband had been killed by the Philistines and the ark of the covenant captured. It is also the title of a poem by John Greenleaf Whittier protesting Daniel Webster's acceptance of the Compromise of 1850. FTP, what is this word which is also the first name of a famous fictional schoolteacher and suitor of Katrina van Tassel?

Answer: Ichabod

17. Grieg's in A Minor; Brahms' #2 in B flat Major; Rachmaninoff's #2 in C Minor; and Chopin's #1 in E Minor are all famous examples of these. Mozart wrote 27, including #21 from which the Elvira Madigan theme is taken, and Tchaikovsky's #1 has also been popularized. Beethoven composed five, of which #5, the "Emperor," is best known. FTP, what are these works for keyboard and orchestra.

Answer: piano concertos or concerti

18. According to an Egyptian legend, Set accused Osiris of certain crimes and brought him before a tribunal of the gods to deliver his accusations. Osiris, however, won the day, perhaps because he had better counsel, for his attorney was the Egyptian god of lawyers, as well as scribes and scholars. FTP, who was this beloved Ibis-headed deity of ancient Egypt?

Answer: Thoth

19. Though it is administered by a geovernor, the real power--that is, the economic power--is held by Mr. Stanley Ho whose family has run its lucrative luxury casinos for generations. Historically, it was where St. Francis Xavier died and was buried, and where Camoens composed the Lusiad--the epic tale of Vasco da Gama's voyages. For 10 points, what is this dependency which will revert to Chinese control in 1999?

Answer: Macao

20. Philadelphia, Pennsylvania; Turin, Italy; Istanbul, Turkey; Karachi, Pakistan; Sao Paulo, Brazil; Leningrad, U.S.S.R.; Kyoto, Japan; and Tel Aviv, Israel. Besides being fairly populous cities, these cities have something, or rather had something in common. FTP, what governmental distinction did these cities once hold?

Answer: they were all formerly national capitals

21. April 18, 1943 was the last day of his life. On that day, carrying out a plan made possible by the Americans' breaking of the Japanese military code, a flight of P-38's intercepted his plane and escort and shot them down. FTP, name this Japanese naval hero, architect of the Pearl Harbor raid and Supreme Commander of the Imperial Navy from 1939 until his death.

Answer: Isoruku Yamamoto

22. A monetarist, a mercantilist, a malthusian, or a marxist. FTP, which type of economist would be most concerned with the equation of exchange, i.e. $MV = PQ$, where P and Q are the price and quantity of goods produced and sold, V is the turnover rate of currency, and M is the amount of the nation's currency in circulation.

Answer: monetarist

23 In biochemistry, they can be any of several enzymes found in plants and animals containing iron, a porphyrin and a protein. The iron atom is continually oxidized and reduced, transporting electrons as part of the intracellular oxidation process. FTP, name this type of enzyme.

Answer: Cytochrome

CQ's

1. (30) Given a brief description, identify each of the following sub-atomic particles for 5 points apiece; 30 points are yours if you get all five correct.

a. Essentially produced by changing a proton's down quark to an up quark, this baryon has a rest mass energy of 1.232 giga-electron-volts and is unusual in that it has a charge twice that of a proton.

Answer: delta particle

b. These leptons come in three varieties which are indistinguishable outside the context of the reactions which produce them, because they have no charge and a negligible rest mass energy.

Answer: neutrinos ✓

c. This meson, like the pi-positive meson, consists of an up quark and an anti-down quark, but occurs when the pi-positive meson is excited to a rest mass energy of 0.767 giga-electron-volts, subsequently giving it a spin of 1.

Answer: rho meson

d. It has a charge of negative one-third, and with a rest mass energy over 500 giga-electron-volts, it is the "heaviest" of all the experimentally confirmed quarks.

Answer: bottom quark (accept anti-bottom quark)

e. Having no charge, it is most energetic intermediate vector boson. What is this virtual weak nuclear field particle with a rest mass energy of 92.6 giga-electron-volts?

Answer: Z (or Zed) naught boson ✓

2. (25) You're getting ready to take a world tour of the great art museums. You would like to see certain favorite works, so you make your plans accordingly. For 5 pts each, to what museum would you go if the following works were on your list?

a. Caravaggio's "The Supper at Emmaus"; Rembrandt's "Christ Before Pilate"; Constable's "The Hay-Wain"

Answer: The National Gallery (London)

b. Rembrandt's "Syndics of the Cloth Guild"; Vermeers's "Woman Reading a Letter"; Rembrandt's "Night Watch"

Answer: The Rijks Museum (Amsterdam)

c. Leonardo's "La Gioconda"; Delacroix's "Liberty Leading the People"; Watteau's "The Embarkation for Cythera"

Answer: Louvre (Paris)

d. Cezanne's "Basket of Apples"; El Greco's "Assumption of the Virgin"; Seurat's "Sunday Afternoon on the Island of La Grande Jatte"

Answer: Art Institute of Chicago

e. Titian's "Venus of Urbino"; Raphael's "The Madonna of the Goldfinch"; Botticelli's "Birth of Venus"

Answer: Uffizi (Florence)

3. (30) On August 6, 1945, the United States unleashed the spectre of nuclear war with its unprecedented annihilation of Hiroshima, Japan. Identify each of the following writers inspired by that horror after one or two clues.

a. i. For 10 points, in 1946 he published the bleakly realistic portrait of the post-blast city which was simply entitled Hiroshima.

ii. For 5 points, he had won the 1944 Pulitzer Prize with his novel A Bell for Adano.

Answer: John Hersey

b. i. For 20 points, this French writer's screenplay, Hiroshima Mon Amour, relates the meeting of a French actress and a Japanese architect in modern day Hiroshima and their reminiscences of the ravaged city and her tragic affair with a German soldier during the French occupation.

ii. For 15 points, a major proponent of the nouveau roman, she won the 1984 Prix Goncourt for L'Amant, the story of the ill-fated affair of an adolescent French colonial girl and a wealthy Chinese man.

Answer: Marguerite Duras

4. (30) Oliver Cromwell was the most significant figure of the English Civil War, but there were other important leaders on both sides. For 15 pts each, identify these.

a. The protestant commander during the first three years of the war, he was uniformly unsuccessful and was forced to surrender his entire army in Cornwall.

Answer: Robert Devereux or 3rd Earl of Essex X

b. Only 23 when the war began, this nephew of Charles I became cavalry commander and led his troops on many successful campaigns. Although defeated by Cromwell at Marston Moor, he rose to the command of the entire Royalist army but was soundly beaten at Naseby in the last major battle of the war.

Answer: Prince Rupert or Ruprecht

5. (25) During the battle of El Alamein in WWII, British commander Montgomery utilized this impassable area to anchor the southern half of his defense. Containing the lowest spot in the nation of Egypt, what, for 25 points, is this 7,000 square mile area in Northwestern Egypt which contains salt lakes and marshes and in which oil was recently discovered?

Answer: Qattara depression

6. (25) Welcome to organic chemistry class! On this visual bonus, I will give you a piece of paper with four organic compounds drawn in structural formula. You will have 30 seconds to name the compounds using either IUPAC or traditional nomenclature and you will receive 5 pts for each correct answer or 25 for all four. Before you begin, I will show the paper to your opponents. (MODERATOR--SHOW LAST PAGE OF ROUND BRIEFLY TO OPPOSING TEAM FIRST, THEN GIVE TO PLAYING TEAM. GIVE THEM 30 SECONDS TO BEGIN ANSWERS AFTER GIVING THEM THE PAPER. REMEMBER THAT MOST PARTS HAVE MULTIPLE ACCEPTABLE ANSWERS.)

- Answers: a. 2,2,4-trimethyl pentane or iso-octane ✓
b. methyl ethanoate or methyl acetate ✗
c. 3-bromo-toluene or para-bromo-toluene or p-bromo-toluene
d. glucose dextrose or levulose

7. (30) Identify the following novels of 20th century French writers for 10 pts each.

a. In this Camus work, Jean-Baptiste Clamence holds court in a bar in Amsterdam named Mexico City where he confesses his life's sins to those who will listen.

Answer: The Fall or La Tombe

b. Paphnutius, a Coptic ascetic, becomes obsessed with converting the title character, a famous courtesan. However, her beauty and his long self-denial turn his evangelical intentions into a sexual fascination, leading to his downfall in this Anatole France work.

Answer: Thais

c. A modern epistolary novel, Michel becomes fascinated with the indulgences of the lower class, and he effectively kills his wife Marceline by not attending to her tuberculosis in this novel by Andre Gide.

Answer: The Immoralist or L'Immoralist

8. (30) Identify this screenwriter, 30-20-10:

a. Born in Montrose, CA in 1905, he began screenwriting in 1935, but was sentenced to a jail term as one of the Hollywood Ten in 1947 for refusing to testify before the House Un-American Activities Committee, after which he moved to Mexico, selling scripts on the black market. Ironically, he won a 1956 Oscar for the screenplay of "The Brave One" under the pseudonym Robert Rich.

b. He became the first black-listed screenwriter to re-emerge when in 1960 Kirk Douglas and Otto Preminger, braving American Legion pickets, insisted that he receive attribution for his scripts of their productions of "Spartacus" and "Exodus."

c. His greatest success came with his only directorial venture--a 1970 film adaptation of his own 1939 stark anti-war novel, Johnny Got His Gun, which subsequently won a prize at the Cannes Film Festival.

Answer: James Dalton Trumbo

9. (20) For 5 pts each, identify the following U.S. Secretaries of State from a description.

a. Nixon's secretary during his first term, his power was undermined by National Security Advisor Henry Kissinger.

Answer: William Rogers

b. He served during the later half of the Truman presidency, replacing Marshall.

Answer: Dean Acheson

c. Secretary of State under Harding and Coolidge, he later became Chief Justice of the Supreme Court.

Answer: Charles Evans Hughes

d. Franklin Roosevelt's second Secretary of State, he chaired the US delegation to the United Nations conference at San Francisco.

Answer: Edward Stettinius

25
10. (20) The Bible is often a pronunciation nightmare for the lay-reader. Identify each of the following Old Testament tongue-twisters.

a. For 10 points, who was the grandson of King Saul whom David took into his own protection after the death of his father, David's bosom companion, Jonathan?

Answer: Mephibosheth (Meh fib oh sheth)

b. For 10 points, what is the Hebrew variant by which King Xerxes I of Persia is known throughout the book of Esther?

Answer: Ahasuerus (Ah haz you eh rus)

c. For 15 points, who was the son of Isaiah and a prophetess whose name, the Bible's longest, means "quick to the plunder, swift to the spoil"?

Answer: Mahershalalhashbaz (Mah har shahl ahl hahsh bahz)

11. (20) Ambrose Bierce's The Devil's Dictionary is a classic work by a great wit. For 5 pts each, give the word defined in the following definitions from that work, all of which begin with the same letter.

a. "A title with which we brand unmarried woman to indicate that they are in the market."

Answer: Miss

b. "The god of the world's leading religion. His chief temple is the holy city of New York."

Answer: Mammon

c. "A staff of office signifying authority. Its form, that of a heavy club, indicates its original purpose and use in dissuading from dissent."

Answer: Mace

d. "A food miraculously given to the Israelites in the wilderness. When it was no longer supplied to them they settled down and tilled the soil, fertilizing it, as a rule, with the bodies of the original inhabitants."

Answer: Manna

12. (30) Identify this human anatomic structure, 30-20-10:

a. Directly anterior to the thoracic region of the vertebra, it is several bundles of nerve fibers, the most important among which is the celiac ganglion.

b. A subservient center of the autonomic nervous system, from it most of the abdominal viscera are innervated, including most of the gastro-intestinal track.

c. A sharp blow to it results in a winded feeling and sharp pain to all of the abdominal organs.

Answer: solar plexus

13. (25) The ancient history of the region of modern Turkey formerly known as Anatolia comprises dozens of major kingdoms. For 5 pts each, given a leader, match him with a kingdom.

Leaders: Gordius, Croesus, Tigran, Mithradates, Hattusilas

Kingdoms: Pontus, Armenia, Lydia, Phrygia, Hittites

Answers: Gordius--Phrygia; Croesus--Lydia; Tigran--Armenia; Mithradates--Pontus; Hattusilas--Hittites

14. (30) Time to play name that opera. Identify the opera based on clues about it, 30-20-10.

a. Its composer struggled with it so much that he composed four overtures for it. The present overture used was composed well after the opera's debut and was begun on a napkin. The three earlier overtures are still performed as orchestral works.

b. In it, Leonore seeks to rescue her husband ~~Florestan~~ from Don Pizarro's dungeon. To do so, she disguises herself as a man whose name is that of the opera.

c. Despite its Spanish setting, the opera is German, like its composer Beethoven.

Answer: Fidelio

15. (30) If that last bonus didn't suit your musical tastes, maybe this one will. Many of the songs played so often today on classic rock stations are much recognized, but their artists are often more obscure. For 5 points apiece, who first recorded these classics of that era?

a. "Mississippi Queen"

Answer: Mountain ✓

b. "21st Century Schizoid Man"

Answer: King Crimson ✓

c. "The Night They Drove Old Dixie Down"

Answer: The Band ✓

d. "I'd Love to Change the World"

Answer: Ten Years After ✓

e. "And When I Die"

Answer: Blood, Sweat, & Tears ✓

f. "Astronomy Domine"

Answer: Pink Floyd

16. (25) It is represented by the lower case Greek letter alpha and is approximately equal to the value of one over one hundred thirty-seven--the denominator of which, as every Viennese schoolboy knows, is the height in meters of "Der Alter Steffel," the spire of St. Stephens Cathedral. Derived by dividing the square of the charge of the electron by Heisenberg's uncertainty value and the velocity of light, it is important because with it the energy eigenvalues of any electron may be derived if its quantum state is known. For 25 points, what is the dimensionless value which represents the proportionality factor between both the Bohr radius and the Compton wavelength and the Compton wavelength and the classical radius of the electron?

Answer: fine structure constant

17. (30) Identify the year in which all of the following events occurred, 30-20-10-0:

a. Heinrich Hertz published his classic treatment of electromagnetic waves; the Mormon Temple was dedicated after forty years of work; Yale and Johns Hopkins played the first American intercollegiate ice hockey match; Rutherford B. Hayes died.

b. Frederick Jackson Turner delivered his pivotal paper, "The Significance of the Frontier in American History"; Henry Ford built his first car; Sir Arthur Conan Doyle killed off Sherlock Holmes in The Memoirs of Sherlock Holmes; Anton Dvorak's Ninth Symphony, "From the New World," premiered in New York.

c. Thomas Hardy published Tess of the D'Urbervilles; the Sherman Silver Purchase Act of 1890 was repealed; James J. "Gentleman Jim" Corbett knocked out John L. Sullivan to become the first heavyweight boxing champion under the Marquis of Queensberry rules; the World's Columbian Exposition was held in Chicago.

d. ZERO-POINT CLUE: Grover Cleveland was inaugurated for the second time to become the twenty-fourth US president.

Answer: 1893

18. (30) Ethics are an integral part of any philosophy. For 10 points apiece, what philosophers wrote the following ethical treatises:

a. On the Genealogy of Morals

Answer: Friedrich Nietzsche

b. An Enquiry Concerning the Principles of Morals

Answer: David Hume

c. The Foundations of the Metaphysics of Morals

Answer: Immanuel Kant

19. (25) Perhaps the world's oldest extant written literature, portions of the Gilgamesh Epic date back to the second millennium B.C. Answer the following questions about this work for 5 pts each.

a. Gilgamesh was neither entirely human nor divine. What percentage or fraction was he of divine composition?

Answer: 67% or 2/3 (two parts god, one part man)

b. Who was Gilgamesh's companion?

Answer: Enkidu

c. Of what city-state was Gilgamesh ruler?

Answer: Uruk or Erech

d. What Akkadian and Sumerian goddess of love and war, later worshipped by the Babylonians, attempted to seduce Gilgamesh?

Answer: Ishtar or Inanna

e. A portion of the epic is very similar to the story contained in Genesis chapter 6 of the Old Testament. What account do these works have in common?

Answer: the Flood

20. (25) In 1927, a series of sociological experiments were conducted on the employees of Western Electric Company in Illinois. The experiments were designed to discover the extent to which wages, working conditions and hours worked affected the performance of employees. To their surprise, the researchers found that psychological factors were more important than others in predicting performance. For 25 pts, name these experiments most famous for the "effect" discovered that human behavior will respond to the stimulus of being observed.

Answer: Hawthorne studies