

Cavalier Classic 1996
Round 5

Tossups :

1) The two types of these are London forces and dipole-dipole forces. London forces are approximately one-tenth weaker than the dipole-dipole variety and are the weakest electrical force acting on atoms. FTP, identify these forces named for the Dutch scientist who first suggested their importance.

Answer : _Van der Waals_ forces

2) He was governor of Virginia at the time of the Battle of Yorktown. In the foreign service, he succeeded Franklin as minister to France. FTP, name this Founding Father, the person around whom the Democratic-Republican party formed, winner of the Presidential election of 1800.

Answer : Thomas _Jefferson_

3) Thought to have been written as a tribute to King James I, this Shakespeare play, his shortest, gives a flattering portrait of the descent of the Stuart line. Minor characters include Donalbain, Malcolm, and Fleance, the son of Banquo and the forefather of the Stuarts. FTP, name this play in which the title character takes the throne of Scotland by killing Duncan.

Answer : _MacBeth_

4) Currently being featured in an extended cameo on ER, this actor replaced Wesley Snipes in the role of Willie Mays Hays in Major League 2. FTP, name this actor who appeared in the film Higher Learning, but whose biggest role was as the star running back and sometime boyfriend of Halle Berry's character in The Program.

Answer : Omar _Epps_

5) With a fractional charge of either $1/3$ or $2/3$ the charge of an electron, the existence of these theoretical particles was first postulated by George Zweig and Murray Gell-Mann. FTP, identify these particles whose types are charmed, strange, up, down, bottom and top.

Answer : _quark_

6) The two candidates to fill his seat in Congress are stockbroker Jill Dockett, a Democrat and Sam Brownback, a Republican temporarily filling the position. He ran and lost for the Vice-Presidency in 1976. FTP, name the man who resigned as Kansas's Senator to pursue the Presidency full-time.

Answer : Bob _Dole_

7) This mythological figure was King of the Myrmidons, had a son named Neoptolemus, and was himself the son of Peleus and Thetis. He was the greatest Greek hero of the Trojan War, partly because, except for one spot on his body, he was invulnerable. FTP, name this hero killed by an arrow which struck his heel.

Answer : _Achilles_

8) He is the author of Totem and Taboo, Moses and Monotheism, and Civilization and Its Discontents. In 1938, he fled to England because of the Nazi persecution of Jews. FTP, name this psychologist famous for The Interpretation of Dreams and for his concepts of the death drive, the Oedipus complex, and the id, ego, and superego.

Answer : Sigmund _Freud_

9) As a youth, this Frenchman served as a newspaper correspondent following the Union army. He served two terms as Premier of the Third Republic, from 1906 to 1909 and from 1917 to 1920. FTP, name this member of the Big Four, nicknamed the Tiger, who tried to punish Germany at the Paris Peace Conference.

Answer : Georges _Clemenceau_

10) FAQTP, what is the area of the ellipse whose equation is $x^2/9 + y^2/16 = 1$?

Answer: 12π

11) It is an expanded version of the story told in "Endicott and the Red Cross." Set in Boston during the seventeenth century, it begins with the main character standing on a public scaffold for three hours, and the climactic scene also occurs on the pillory, when the young minister joins the heroine and her illegitimate daughter to confess his sin. FTP, identify this novel, the story of Roger Chillingworth, Arthur Dimmesdale, and Hester Prynne, written by Nathaniel Hawthorne.

Answer: The _Scarlet Letter_

12) He wanted to become organist at the Busseto Cathedral when his teacher, Giovanni Provesi, died, but the job was taken and he had to settle for conducting the town orchestra. Moving to Milan in 1839 with his first opera, Oberto, its success led him to write three more, including the wildly popular Nabucco. FTP, name this composer, author of an Ave Maria and the Manzoni Requiem, who is best known for operas like Otello, La Traviata, and Aida.

Answer : Giuseppe _Verdi_

13) Events that occurred during the reign of this English monarch include the rise and fall of Napoleon and the conclusion of the Treaty of Paris ending the Seven Years War. He had the longest reign of any English king, 60 years. FTP, name this Hanoverian, the tyrant against whom the American colonies rebelled.

Answer : _George III_

14) This play takes place in the time just after the defeat of the Seven Against Thebes. One of the dead seven is unburied, and the new king won't allow his burial. The sister of Polynices, who is also the daughter of Oedipus and the play's title character, buries him anyway, and Creon, in revenge, buries her alive. FTP, name this tragedy by Sophocles.

Answer : _Antigone_

15) In 1677, he made the first full observation of a transit of Mercury. An Englishman, he paid for the publication of Newton's Principia Mathematica. He believed comets followed elliptical paths around the sun and predicted the comet of 1680 would return in 1758. FTP, name the scientist, whose comet returned again in 1986.

Answer : Edmund _Halley_

16) This U.S. state borders eight other states, and contains such physical features as the flood plain of the Mississippi River and the Unaka Mountains. Cities include Oak Ridge, Johnson City, and Cleveland. FTP, name this state whose capital is Nashville.

Answer : _Tennessee_

17) This NFL starting quarterback's offensive linemen include Jason Mathews and Tony Mandarich, his tight end is Ken Dilger, and his wide receivers include Sean Dawkins and Marvin Harrison. FTP, name this QB, dubbed Captain Comeback for leading the Colts to within a play of the Super Bowl last year.

Answer : Jim _Harbaugh_

18) He founded several magazines, including Master Humphrey's Clock, Household Words, and All the Year Round. He obtained his nickname after writing Sketches by Boz, a series of magazine articles about daily life. FTP, name this English writer of the 19th Century, whose more famous works include Martin Chuzzlewit, Bleak House, A Christmas Carol and A Tale of Two Cities.

Answer : Charles _Dickens_

19) It was reported that this alternative rocker was seen checking into a hotel with No Doubt's Gwen Steffani in the week of the MTV Music Awards. He is the vocalist for the band whose first album was Sixteen Stone, which featured songs like "Little Things Kill" and "Glycerine". FTP, name this man, the lead singer of Bush.

Answer : Gavin _Rossdale_

20) One of the first scientists to observe the phases of Venus, he developed an alternative to the dynamics of Aristotle. Born in 1564, his other discoveries include the law of falling bodies. FTP, name the Italian who supposedly said "And still it moves!" under his breath after his famous recantation.

Answer : _Galileo_ Galilei

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Boni for round five :

1) Given a work of French literature, name its author FTP each.

- a) Gargantua and Pantagruel
- b) The Misanthrope
- c) The Human Comedy

Answers : Francois _Rabelais_; _Moliere_; Honore _Balzac_

2) FTP each, answer these questions about the following polynomial : $x^2 - 5x + 7$.

- a) What is its degree?
- b) What is the sum of its roots?
- c) What is the product of its roots?

Answers: _two_; _five_; _seven_

3) Answer the following questions on the playoffs leading up to the World Series FTP each.

- a) What St. Louis Cardinal hit a grand slam off of Braves pitcher Greg Maddux in game 2 of the NLCS?
- b) What Oriole made a key error on a botched pump fake throw to let in the game-winning run in game 3 of the ALCS?
- c) What Ranger pitched a complete game to pick up Texas's only win in its divisional series with the Yankees?

Answers : Gary _Gaetti_; Todd _Zeile_; John _Burkett_

4) Identify the following architects from buildings they designed on a 10-5 basis.

- 10) The John Hancock Tower, Boston
- 5) The glass pyramid at the Louvre
- 10) The German Pavilion at the 1928 Barcelona Exhibition
- 5) The Seagram Building, New York
- 10) Trans-World Airline terminal, Kennedy Airport, New York
- 5) The Gateway Arch, St. Louis

Answers : I. M. _Pei_; Ludwig _Mies van der Rohe_; Eero _Saarinen_

5) Given the inventors of useful items and a hint, identify the things they created FTP each.

- a) This car accessory was invented by Mary Anderson in 1902.
- b) Although its use didn't become widespread until recently, this communications device was invented by Arthur Korn in 1907.
- c) Carlton Magee invented them in 1935, to the benefit of civic governments everywhere.

Answers : _windshield wipers_; _fax_ machines; _parking meters_

6) Identify the following works by Herman Melville, for the stated number of points.

- 5) This 1851 novel about a white whale is considered his masterpiece.
- 10) Not published until 1924, this story of a foretopman was set to music by Benjamin Britten.
- 15) Subtitled "A Peep at Polynesian Life," it was an immediate success and made Melville famous.

Answers : _Moby-Dick_; _Billy Budd_; _Typee_

7) Answer the following questions about the Mexican War FTP each.

- a) What President was happy to see the war come as it helped forward his policy of territorial expansion for the country?
- b) What General nicknamed Old Rough and Ready was the hero of the Battle of Buena Vista?
- c) What treaty brought the war to a conclusion?

Answers : James _Polk_; Zachary _Taylor_; Treaty of _Guadalupe Hidalgo_

8) Answer the following questions on genetics for the stated number of points.

- a) For five points each, name the two scientists who discovered the double helix structure of DNA.

b) For an additional five points each, name the four nucleotides which makeup DNA.

Answers : James _Watson_; Francis _Crick_; _adenine_; _cytosene_; _guanine_; _thymine_

9) Given a 1996 Heisman Trophy candidate, name his school FTP each.

- a) Tiki Barber
- b) Orlando Pace
- c) Steve Sarkisian

Answers : _UVA_ (_Virginia_); _Ohio State_; _BYU_ (_Brigham Young_)

10) FTP each, answer these questions about world languages.

- a) What is the only Romance language which uses the Cyrillic alphabet?
- b) What is the only language which uses the Hiragana alphabet?
- c) The first two letters of what alphabet are "aleph" and "bet"?

Answers : _Romanian_; _Japanese_; _Hebrew_

11) Given the military event, name the year in which it took place FTP each.

- a) Surrender of Vicksburg
- b) Battle of Saratoga
- c) Tet offensive

Answers: _1863_; _1777_; _1968_

12) 1990 was a fine year for music, as the top ten albums of that year indicate. Given a band or artist, name their top ten album from 1990, FFP each.

- a) Janet Jackson
- b) Phil Collins
- c) Michael Bolton
- d) Aerosmith
- e) Motley Crue
- f) B-52's

Answers : _Rhythm Nation 1814_; _But Seriously_; _Soul Provider_; _Pump_; _Dr. Feelgood_; _Cosmic Thing_

13) Identify the twentieth century author from works, 30-20-10.

- 30) The Boy in the Bush and Aaron's Rod
- 20) The White Peacock and The Rocking-Horse Winner
- 10) Sons and Lovers and Lady Chatterly's Lover

Answer : D. H. _Lawrence_

14) Answer the following questions on the plant kingdom for the stated number of points.

- 5) What is the term for the study of plants?
- 10) Possession of what pigment allows plants to conduct photosynthesis?
- 15) What type of plants are characterized by having naked seeds formed on open scales produced in cones?

Answers : _botany_; _chlorophyll_; _gymnosperms_

15) Answer the following concerning the beginnings of socialism, FTP each.

- a) This German organized the First International in 1864.
- b) He was Marx's partner and helped him create dialectical materialism.
- c) The first volume of this massive study of capitalist economies was published by Marx in 1867.

Answers : Karl _Marx_; Friedrich _Engels_; _Das Kapital_

16) Given the subtitle to a current best-selling nonfiction book, give the author FTP each. If you need the title, you only get 5 points.

- 10) Modern Liberalism and American Decline
- 5) Slouching Towards Gomorrah
- 10) A Cubicle-Eye View of Bosses, Meetings, Management Fads and Other Workplace Afflictions
- 5) The Dilbert Principle
- 10) An Agent Inside the Clinton White House
- 5) Unlimited Access

Answers : Robert _Bork_; Scott _Adams_; Gary _Aldrich_

17) Give the total number of Popes to have taken the following names, FFP each and a five points bonus for all correct.

- a) Paul
- b) Pius
- c) John
- d) Leo
- e) John Paul

Answers : _6_; _12_; _23_; _13_; _2_

18) Identify the World War I battles, FTP each.

- a) On one day of this 1916 battle, the British lost 60,000 troops, the highest single day losses in history.
- b) The counter-offensive ordered here by Joffre in September, 1914 stopped the German assault on Paris.
- c) This 1916 naval battle, fought in the Skagerrak, saw the Germans yield after inflicting heavy losses on the British.

Answers : Battle of the _Somme_; Battle of the _Marne_; _Jutland_

19) Identify the countries from cities they contain on a 10-5 basis.

- 10) Valparaiso, Concepcion
- 5) Santiago
- 10) Marrakesh, Fez
- 5) Rabat
- 10) Basel, Lausanne
- 5) Bern

Answers : _Chile_; _Morocco_; _Switzerland_

20) Ocean life can be grouped into three broad categories. Name them from a description FTP each.

- a) This class, whose name derives from the Greek for "floating", includes algae, bacteria, and jellyfish. Many of its members can carry out photosynthesis.
- b) This class, whose members swim under their own power, feeds on the plankton.
- c) This class encompasses life on the sea floor, including sea squirts and sponges.

Answers: _plankton_; _nekton_; _benthos_ or _benthic_