

Valencia Fall Tournament 1998

1) West Virginia, Alaska, Idaho, Oklahoma, Texas, and Florida are all states that feature, FTP, what narrow strip of land?

A. panhandle

2) John Colton's play Nine Pine Street and Agnes DeMille's ballet Fall River Legend are based on her alleged crimes. Less known, however, is the fact that she was acquitted. FTP name this supposed murderess, subject of a well-known children's rhyme, who may or may not have given her parents "forty whacks."

A. Lizzie Borden

3) Twenty five percent of visitors to this national park drive to the 3,214 foot high Glacier Point to view its deep chasm and Half Dome Mountain. FTP name this park whose fame was helped by the photography of Ansel Adams.

A. Yosemite

4) For a quick ten points, what is the weight in Newtons of an object with a mass of 10 kilograms?

A. 98 Newtons

5) His funeral drew 10 million mourners, making it the largest in history. The mourners may have been overzealous in their grief, however, as his coffin was upset and his body buffeted about the crowd. FTP, who was this beloved figure buried June 6, 1989, in Tehran?

A. Ayatollah Ruhollah Khomeini

6) If a club has ten members, and no member can hold more than one elected position, then in how many ways can the club elect two officers?

A. 90

7) Her grandfather was Nobel Prize winning physicist Max Born, famous for naming quantum mechanics. Her fame has greatly outstripped his, however, proving that singing "Physical" is better than being a physicist. FTP name this pop singer and female lead in the movie Grease.

A. Olivia Newton-John

8) He may or may not have committed suicide, but regardless he died at age 40 in 1916. His novel The Sea Wolf was successful, though it did not actually feature wolves, as did his two most successful novels. FTP name this author of White Fang and The Call of the Wild.

A. Jack London

9) A church council held in 1139 tried to outlaw this weapon because they found it so terrible.

FTP name this weapon mounted on a horizontal stock which fires bolts much like a rifle fires bullets.

A. crossbow

10) It is a 3-4 inch pear shaped sac located in a fossa on the visceral surface of the liver. FTP name this human organ whose purpose is to store and concentrate bile.

A. gall bladder

11) Though clearly a Romantic painter in both style and era, he greatly influenced the impressionists due to his colorful palette and evocative brush strokes. A Frenchman, he himself was greatly influenced by Gericault (zhair-I-co), especially in early works like The Massacre at Chios and Greece Expiring on the Ruins of Missolonghi. FTP name this painter who feuded with Jean Dominique Ingres (ahn-gray) and created works such as The Lion Hunt and The Death of Sardanapalus.

A. Ferdinand Eugene Victor Delacroix (day-la-cwah)

12) Illinois governor John Altgeld committed political suicide by pardoning the three conspirators not executed for allegedly contributing to this notorious labor incident. FTP, what was this 1886 incident which took its name from the Chicago square where someone lobbed a stick of dynamite into a crowd of police officers?

A. Haymarket Square

13) His latest novel, Bech at Bay, appeared this October, and completes a trilogy of books about Henry Bech. FTP name this prolific American author of the 90s novels Brazil and In the Beauty of the Lilies, better known for a tetralogy of novels about Harry Angstrom, nicknamed "Rabbit."

A. John Updike

14) The southwest shore of this lake is dotted by landmarks such as Grant Park, the Shedd Aquarium, and the Field Museum of History and Natural Science. FTP name this Great Lake, the only one wholly within the U. S.

A. Lake Michigan

15) Let A be an n by n matrix that is not invertible. FTP, what is its determinant?

A. 0 (zero)

16) Like the photon, it can have energy and must travel at the speed of light. It is emitted during beta decay and was named by Italian-American physicist Enrico Fermi. FTP, what is this subatomic particle with zero charge and zero mass at rest?

A. neutrino

17) He only wrote one comedy: Ah, Wilderness! His own difficult upbringing and drinking problems led him to darker territory, as in his Mourning Becomes Electra. FTP name this dramatist, the only American playwright to win the Nobel Prize.

A. Eugene O'Neill

18) Carbon monoxide actually has an even higher affinity for this protein than does oxygen and thus acts as a poison by displacing oxygen from it, causing anoxia. A lack of this protein causes anemia. FTP, name this protein in red blood cells which contains iron and bonds oxygen.

A. hemoglobin

19) A former navy SEAL, he served as mayor of suburban Brooklyn Park, Minnesota, in the early 1990s. As a bad guy during the first glory period of the World Wrestling Federation, he was noteworthy for his chiseled physique and penchant for wearing a feather boa. FTP name this former wrestler who has said his nickname should be changed to “the Mind” now that he’s been elected governor of Minnesota.

A. Jesse “the Body” Ventura

20) Its highest mountain is Mt. Semeru, a dormant volcano. Some of its important cities are Semarang and Bandung. FTP name this island which contains almost two-thirds of Indonesia’s population, including its capital, Jakarta.

A. Java

21) An ancient percussion instrument, it is similar in construction to the glockenspiel. Lionel Hampton might be the most famous practitioner of this instrument, though Xavier Cugat could play it as well. FTP name this musical instrument which is played with special hammers and isn’t spelled with a ‘z.’

A. xylophone

Bonus Questions

1) With the 1998 elections burned into your short-term memory, you should have no trouble identifying the state which elected or re-elected the following people as governor for five points each.

George W. Bush	A. Texas
Jeb Bush	A. Florida
Gray Davis	A. California
Tommy Thompson	A. Wisconsin
George Pataki	A. California
Roy Barnes	A. Georgia

2) Over 38 billion aggregate viewers tuned in to at least one World Cup match this past summer, but I bet you weren't one of them, were you? Well, now you'll wish you were. Given a star player, name the country for which he played for five points each.

Zinedine Zidane	A. France
Dennis Bergkamp	A. The Netherlands (Holland)
Hristo Stoichkov	A. Bulgaria
Michael Owen	A. England (do not accept Great Britain)
Oliver Bierhoff	A. Germany
Alexi Lalas	A. U. S.

3) 30-20-10 Name the author from novels.

30 Mansfield Park
20 Northanger Abbey; Persuasion
10 Emma; Sense and Sensibility

A. Jane Austen

4) Identify the following Egyptian gods on a 10-5 basis.

10) He is the son of Osiris and the Seth's wife Nephtys, who tricked Osiris into thinking she was Isis.

5) He is the jackal-headed god of funeral rites.

A. Anubis

10) The pharaoh in most dynasties was considered the earthly manifestation of this son of Isis and Osiris.

5) He is the falcon-headed god.

A. Horus

10) This god was considered the store of universal knowledge.

5) The god of writing, he is depicted with the head of an Ibis.

A. Thoth

5) Given a definition, name the term associated with wave motion for ten points each.

This is the distance from the midpoint of a wave to a crest or trough.

A. amplitude

This is the distance between two successive crests.

A. wavelength

This is the number of crests that pass a given point per unit time.

A. frequency

6) 30-20-10 Name the historical artifact.

30) Made of basalt, it measures 1.2 meters in length and is .75 meters wide

20) Work on it was begun by Thomas Young, and it now resides in the British Museum.

10) Jean-Francois Champollion is given credit for using it to decipher hieroglyphic writing.

A. Rosetta Stone

7) Deal with the following calculus questions; your reward is ten points for each correct.

On the definite integral from 3 to 3, find $\tan^2(3x+5)dx$ (*tangent squared times the quantity three x plus five, d x*).

A. **0 (zero)**

Find the derivative of the following equation: $y=x^2-4x+5/x^3$ (*y equals the quantity x squared minus four x plus 5 divided by x cubed*).

A. **$\ln x + 4/x - 5/x^2$** (*the natural log of x of 4 over x minus 5 over x squared*)

Find the limit as x approaches infinity of the equation $6x^4-8x^2/3x^3+2x$ (*quantity six x to the fourth minus eight x squared divided by the quantity three x cubed plus two x*)

A. **infinity**

8) Answer the following questions about Israel for ten points each.

In what year was modern Israel created as a state?

A. 1948

Who was Israel's first prime minister?

A. David Ben-Gurion

What is the name of Israel's parliament?

A. Knesset

9) A plate on the bottom of a toaster specifies that it should be connected to 120 volts and will draw 4 amperes. For twenty points, what is the resistance of the toaster?

A. 30 ohms (must give units for credit)

10) Name the authors of the following famous essays commonly assigned in freshman writing courses for ten points each.

“Once More to the Lake”

A. E. B. White (continued on next page)

“A Modest Proposal”

A. Jonathan Swift

“Politics and the English Language”

A. George Orwell

11) Given a description of a work or works currently hanging in the Art Institute of Chicago, name its creator for ten points each.

“The Old Guitarist,” an angular painting swathed in various hues of blue, is in the modern wing.

A. Pablo Picasso

This painter's magnificent altarpiece depicting "The Assumption of the Virgin" was moved to Chicago from Toledo, Spain, in 1907.

A. El Greco

The institute is currently hosting a retrospective of the works of this woman's impressionist paintings, including the famous "A Child's Bath."

A. Mary Cassatt

12) Given the proper name of some creature, real or fictional, name its taxonomic order for five points each.

Bugs Bunny	A. lagomorpha
Wile E. Coyote	A. carnivora
Willy, from <u>Free Willy</u>	A. cetacea
Jerry Springer	A. primates
Woody Woodpecker	A. aves
Albert, the University of Florida Mascot	A. crocodilia

13) For 15 points each, answer the following questions about matrices.

A matrix acts on a non-zero vector to produce a scalar multiple of that vector. What special name is given to such a vector?

A. eigenvector (acc. characteristic vector)

What special name is given to the associated scalar, commonly denoted by the greek letter lambda?

A. eigenvalue (acc. characteristic value)

14) The question writer was pleased to find that he could recognize none of this past week's top ten singles on the Billboard chart. Perhaps you can do better. Given the name of a current top ten single, name its "artist" for five points each.

The First Night	A. Monica
This Kiss	A. Faith Hill
Crush	A. Jennifer Paige
One Week	A. Barenaked Ladies
Doo Wop (That Thing)	A. Lauryn Hill
Lately	A. Divine

15) For ten points per part, give the month and day, time of day, and year of the declaration of peace after World War I.

A. November 11; 11 a.m.; 1918

16) Few people seem capable of understanding the intricacies of the new Bowl Championship Series rating system, but we can all read the results. For five points each, and a five point bonus for naming them in order from first place, tell me the top five teams in the current BCS poll.

Answers (in order): Tennessee, UCLA, Kansas St., Florida State, Florida

17) Name the following Supreme Court Justices from the date of their swearing in for ten points;

if you need a description, you'll receive five points. Hint: they're all currently on the court.

10) Sworn in on January 7, 1972.

5) He's the Chief Justice A. William H. Rehnquist

10) Sworn in on September 25, 1981

5) She was the first woman selected for the court. A. Sandra Day O'Connor

10) Sworn in on August 10, 1993

5) She is the second woman selected for the court. A. Ruth Bader Ginsburg

18) Given the formula of a chemical compound, name it for ten points each.

KClO₃ A. potassium chlorate

N₂O A. nitrous oxide

H₃BO₃ A. boric acid

19) Answer the following questions about volcanoes for the stated number of points.

5 pts.) When molten rock is still within the volcano, it is known as what?

A. magma

10 pts.) A large depression (over 1 km in width) at the summit of a volcano is called what?

A. caldera

15 pts.) What name is given to a broad, dome-shaped volcano formed by basaltic lava flows?

A. shield volcano

20) 30-20-10 Name the composer from his works.

30) Fingal's Cave

20) New Hebrides Suite; Italian Symphony

10) Scotch Symphony; A Midsummer Night's Dream

A. Felix Mendelssohn