

Academic Team Questions

Round Five

February 3, 2005

American Literature

Team A

1. After inventing both the lever and the wheel, George Antrobus was elected President of the Ancient and Honorable Order of Mammals, Subdivision Humans -- in what 1942 Pulitzer Prize winning play by Thornton Wilder?

Ans. THE SKIN OF OUR TEETH

2. This U.S. poet is best known for his poem "Trees". Name him.

Ans. Joyce Kilmer

Team B

1. The women in his play, THREE TALL WOMEN, are known by the letters A, B, and C, not by names. Name the American author.

Ans. Edward Albee

2. John Procter, Elizabeth Proctor, Judge Danforth, and Tituba are characters you can find in what famous work by Arthur Miller?

Ans. THE CRUCIBLE

Tossup

DRUMS ALONG THE MOHAWK tells the story of this war from a farmer's point of view. Name the war.

Ans. American Revolution

Mathematics

Team A

1. In which quadrant are both the cosine and the secant functions positive?

Ans. IV

2. A store charges 25 cents a pound for the first pound of potatoes and 20 cents a pound for each additional pound. A woman paid \$2.65 for the potatoes. How many pounds of potatoes did she buy.

Team B

1. In which quadrants is the cosine function increasing?

Ans. III, IV

2. If the possible score for each examination is 100 and Mary wishes to have an average of at least 75, what is the lowest score she can receive on the third test, if the first two scores are 65 and 80?

Ans. 80

Tossup

In triangle ABC, angle A is 30 degrees more than angle B. Angle C equals the sum of angle A and angle B. Find the measures of each of the three angles.

Ans. 60 degrees, 30 degrees, 90 degrees, respectively

World History

Team A

1. Two natural resources assisted Britain in leading the Industrial Revolution. What were they?

Ans. Coal and iron

2. He won the Nobel Peace Prize with Anwar Sadat. He was prime minister of Israel from 1977 to 1983. Name him.

Ans. Menachem Begin

Team B

1. The combined armies of Austria and what other country were soundly defeated by French troops under Napoleon at the Battle of Austerlitz?

Ans. Russia

2. Name the missionary who introduced Christianity to Japan.

Ans. Francis Xavier

Tossup

Around 1500, which Belgian port became the commercial center of Western Europe?

Ans. Antwerp

Fine Arts

Team A

1. Poet Andre Breton is considered the founder of which movement: Existentialism, Cubism, Impressionism, Surrealism, or Expressionism?

Ans. Surrealism

2. What opera was composed by Verdi for the opening of the Suez Canal?

Ans. AIDA

Team B

1. Born in Russia, this American painter was a leader of the Abstract Expressionist movement: Mark Rothko, Paul Klee, Marc Chagall, Theodore Gericault, or Cristo?

Ans. Mark Rothko

2. In music, it is the performer's accuracy with respect to pitch. What is the term?

Ans. intonation

Tossup

Tsar Alexei started a school for making them in 1645. Their subjects were easily recognizable, sporting long fingers, large eyes, and somber expressions. They were often covered with gold as they hung in cathedrals. Name these paintings, which share a name with some Windows symbols.

Ans. Icons

Life Science

Team A

1. Normal eye pupils in daylight are fairly small. What adjective describes pupils that cover a large area of the iris?

Ans. Dilated

2. The hypothesis that living organisms can arise only from preceding living organisms is known by what term?

Ans. biogenesis

Team B

1. Saliva comes from three pairs of glands located in or near the mouth and flows into the mouth through little tubes. Such little tubes that lead from glands are called what?

Ans. Ducts

2. What do you call the whole blood lacking erythrocytes, leukocytes, and platelets, or the fluid portion of whole blood?

Ans. blood plasma

Tossup

Name all the bones that meet at the knee.

Ans. Tibia, fibula, femur, patella

English Literature

Team A

1. It describes the perfection and timelessness of art, in contrast to the living world of change. Name this poem by John Keats.

Ans. "Ode on a Grecian Urn"

2. In which Shakespearean play would you find the characters of Duke Orsino, Malvolio and Sir Toby Belch?

Ans. TWELFTH NIGHT

Team B

1. "And then my heart with pleasure fills, / And dances with the daffodils." These lines are from a poem by what poet?

Ans. Wordsworth

2. Dante wrote THE DIVINE COMEDY, the first part of which is devoted to the place of souls who in life are wholly given up to sin. What is the name of this part of the poem?

Ans. THE INFERNO

Tossup

Which poet, also an engraver and a painter, personally manufactured every one of his books, cutting the verses into copper plates?

Ans. William Blake

U.S. Government

Team A

1. What adjective describes a witness who can give testimony having a direct bearing upon the defendant's guilt or innocence?

Ans. Material

2. Identify the 1803 U.S. Supreme Court case in which the court, led by Chief Justice Marshall, held that it has the power of judicial review. This was the first time the court declared a Congressional law unconstitutional.

Ans. *Marbury v. Madison*

Team B

1. What legal term refers to a trial that has been terminated and declared void before hearing the jury's verdict due to some extraordinary circumstance?

Ans. Mistrial

2. What do you call a resolution passed by both houses of a bicameral legislature, eligible in due process to become a law?

Ans. joint resolution

Tossup

What phrase is used to describe the system established by the federal and state constitutions for preventing any one branch of government from becoming too powerful by giving each branch some control over the others?

Ans. Checks and balances

Physical Science

Team A

1. A force of 50 newtons causes an object to accelerate at 10 meters per second squared. What is the mass of the object?

Ans. 5 kg

2. What term is used to designate the shift of the spectral lines of a star indicating that the star is traveling away from Earth?

Ans. red shift

Team B

1. A force of 20 newtons is exerted on a cart for 10 seconds. How long must a 50-newton force act to produce the same impulse?

Ans. 4 seconds

Tossup

The preferred way to render highly-enriched uranium useless for bombs is to blend it with large quantities of non-fissionable uranium isotopes that make up over 90% of natural uranium. Give me the mass number of the uranium isotope used for bombs.

Ans. 235

World Geography

Team A

1. Cartagena, Barranquilla, and Santa Maria are which country's main Caribbean ports?

Ans. Colombia

2. If you took a trip that originated in Rio de Janeiro, Brazil, and traveled east along the Tropic of Cancer, which African country would you fly over first?

Ans. Namibia

Team B

1. What country is bordered to its south by Greece and to its east by Bulgaria?

Ans. Macedonia

2. What African nation got its name from a people from whose name we also get the word Moor?

Ans. Mauritania

Tossup

France and several other countries have three vertical bars as their flags. Which flag has three vertical bars with a maple leaf in the center?

Ans. Canada

U.S. History

Team A

1. In 1992, which Southern state admitted it made a mistake more than 160 years before when its officials ignored a direct order from the Supreme Court to stop the move toward seizing Cherokee reservation lands, in an action that led to the infamous Trail of Tears?

Ans. Georgia

2. He was sent in 1803 by President Thomas Jefferson to France to negotiate the Louisiana Purchase. Name him.

Ans. James Monroe

Team B

1. Maine is now unique in bordering just one other U.S. state, but in 1828 Louisiana bordered just one other state. Which one?

Ans. Mississippi

2. Which U.S. President was the first to deliver an inaugural address?

Ans. George Washington

Tossup

The Overland Stage Route and the Mormon Trail crossed at which state: Texas, New Mexico, Nebraska, Indiana, or Oklahoma?

Ans. Nebraska

Lightning Round

1. Which person comes on stage directly before the conductor and tunes the orchestra?

Ans. Concert Master (The principal first violinist)

2. Moraines are deposits of rock, gravel, and dirt that have been left behind by what kind of natural feature?

Ans. Glaciers

3. People of what civilization gave an enduring name to the fraction that results from dividing circumference by diameter?

Ans. Greek

4. What regular polyhedron has exactly one-half the sides of an octahedron?

Ans. Tetrahedron

5. An area defended by an animal is called its what?

Ans. Territory

6. During a nosebleed, blood issues from what kind of vessels?

Ans. Capillaries

7. What fundamental force is responsible for Earth's spherical shape?

Ans. Gravity

8. Taiga is mostly limited to which hemisphere?

Ans. Northern

9. The nectarine began as a mutation of what other fruit?

Ans. Peach

10. The solid residue of tobacco smoke that contains the residues and byproducts of combustion is called what?

Ans. Tar

11. If you burnish something, what effect are you trying to produce?

Ans. Polish; shine

12. Identify the author of The Secret Life of Walter Mitty.

Ans. James Thurber

13. What do spelunkers spend most of their time exploring?

Ans. caves

14. Which German physicist is credited with the discovery of X-rays on November 8, 1895?

Ans. Wilhelm Roentgen

15. Name the only wife of Henry VIII that outlived him.

Ans. Catherine Parr

16. Who, more than any other person, was responsible for the spread of the American free public library system?

Ans. Andrew Carnegie

17. After normal mitotic division, how many chromosomes does each new daughter cell contain as compared to the mother cell?

Ans. the same number

18. The elements bordering the zigzag line on the periodic table are called what?

Ans. metalloids (accept semimetals)

19. The Styx is the river which surrounds Hell in Greek mythology. How many times does it flow around Hell?

Ans. 7

20. The tympanic membrane is more commonly known as what?

Ans. the eardrum

Alphabet Round

“F”

1. Measurement developed by sailors and now standardized at six feet to indicate depth.
2. Jeweler commissioned by Russia's last imperial family to create special jeweled eggs with which to celebrate Easter.
3. Last name of the actress whom the would-be assassin of President Reagan in 1981 was trying to impress by his actions.
4. A prime-time television series on ABC from 1976 to 1980 about the middle-class Lawrence family from Pasadena, California and starring Sada Thompson, James Broderick, Gary Frank, Meredith Baxter-Birney and Kristy McNichol.
5. Mathematical term defined as any set of ordered pairs where no two different pairs have a common first element.
6. Attractive mineral occurring in both igneous and sedimentary rocks, used in steel-making and smelting ores. It also can be used in making Freon and high-test gasoline.
7. Two-word term found in such things as speech, writing, memory lapses and sudden statements from one's tongue. According to the man whose name it bears, it is no innocent gesture but a revealing of the wishes of the unconscious mind.
8. This state in the U.S. comes from the Spanish meaning “feast of flowers,” was the 27th state in the Union, has as its state flower the orange blossom, and the mockingbird as its state bird. Its nickname is the “Sunshine State.”
9. This was a television show of the same name as the movie starring Luke Halpin and Chuck Connors about a fun-loving dolphin.
10. The meaning of F in Newton's Second Law of Motion in the equation $F = Ma$.

Alphabet Round

Answers to “F”

1. fathom
2. Faberge
3. Foster (as in Jodie Foster)
4. “Family”
5. function
6. fluorine (accept fluorspar)
7. Freudian slip
8. Florida
9. “Flipper”
10. force

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Extra Questions

1. Who wrote *Alice's Adventures in Wonderland*?

Ans. Lewis Carroll (or Charles Lutwidge Dodson)

2. (20 seconds) At what point do the following lines intersect? $x = y$ and $y = 2x + 2$

Ans. (-2, -2)

3. What is the capital of Australia?

Ans. Canberra

4. In civil rights struggles of the 1960s, these individuals rode buses and trains to southern states in an effort to desegregate transportation systems. What were these persons called?

Ans. Freedom riders

5. What is the term for the flame like discharge sometimes seen on ships' masts during storms?

Ans. St. Elmo's fire

6. Name the island on which Napoleon was imprisoned from 1815 until his death in 1821.

Ans. St. Helena

7. It is a candlestick with seven branches. It is the symbol of Judaism. What is it called?

Ans. Menorah

8. What is the name of the middle period of the Mesozoic era?

Ans. Jurassic

9. He wrote *OLD POSSUM'S BOOK OF PRACTICAL CATS* and *MURDER IN THE CATHEDRAL*. Identify him.

Ans. T. S. Eliot

