

ROUND 9

Technophobia 1  
California Institute of Technology  
November 15-16, 1996

Toss-ups  
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1. In this work, the author uses the title character as a means to ridicule and attack the immoralities of the aristocracy. She has adulterous affairs with Rodolphe and Leon, two men who she lusts after due to their fortune and success. She envies and dreams of wealth with materialistic abandon, blaming her husband, a good-natured yet clumsy provincial physician, as the cause. FTP, give the name of this 19th century French novel written by Gustave Flaubert.

ANSWER: \_MADAME BOVARY\_

2. Sometimes considered to be the first secret weapon in history, it was supposedly developed by a Syrian refugee of the Arab conquest of that region. Its deadliness in combat, especially at sea, has been cited as a prime reason for the long survival of the Byzantine Empire, enabling Constantinople to withstand attacks from Arab fleets in 673 and 717. FTP identify this petroleum based, napalm-like mixture whose secret was so tightly kept that the exact composition remains unknown.

ANSWER: \_GREEK FIRE\_

3. This man began sculpting in 1895, creating bronzes like the two foot tall \_Trooper of the Plains\_. He was offered a commission to illustrate Geronimo's Apache campaign in 1882. For ten points, who was this painter based in Rochelle, NY, whose works include \_A Dash for the Timber\_ and the bronze \_Bronco Buster\_?

ANSWER: Frederic Sackrider \_REMINGTON\_

4. First published in 1952, it was first revised in 1968 and there have been three more since then, with the last revision in 1993. It was based on Emil Kraepelin's system of classifying mental disorders. For ten points, name this book published by the American Psychiatric Association used by psychologists to diagnose their clients.

ANSWER: \_DIAGNOSTIC AND STATISTICAL MANUAL OF MENTAL DISORDERS\_  
(accept \_DSM-4\_)

5. "Handling the Ball," "Obstructing the Field," "LBW," "Caught behind," "Clean Bowled," "Run out" and "Hit Wicket" are all various methods of a player being declared out in this sport. For ten points, identify the sport in which Sri Lanka is the current world champion.

ANSWER: \_CRICKET\_

6. If held today, it would be known as the Battle of Navpaktos in

Greece. It involved about 172,000 men and over 450 ships, and actually took place over 30 miles away at the entrance to the Gulf of Patras. Occurring on October 7, 1571, it saw a Christian fleet under Don John facing a Turkish fleet led by Ali Pasha. It had little military impact, since Venice surrendered Cyprus to the Turks two years later, but it had a great impact on European morale, and inspired paintings by Titian and Tintoretto. FTP, name this battle.

ANSWER: Battle of \_LEPANTO\_

7. Chaetognatha (keet-og-natha) and this phylum are the only two phyla of deuterostome invertebrates. Its classes include Holothuroidea, Crinoidea, and Asteroidea. For ten points, what is this phylum which comprises sea lilies, sea cucumbers, sea urchins, sand dollars, and sea stars?

ANSWER: \_ECHINODERMATA\_ or \_ECHINODERMS\_

8. Kareena '97, Kristin '99, Sarah '00, Albert '69 -- these are the Harvard graduation years of, for ten points, members of what family, also including Al, Jr., and Tipper?

ANSWER: \_GORE\_

9. He was widely rumored to have black ancestry, causing his father-in-law, Amos Kling, to bar him from his house for the first 14 years of this president's marriage. He became the Republican nominee after the 3 frontrunners deadlocked, but won the 1920 election handily with a front porch campaign. For ten points, name this 29th president who convened the Washington Conference on naval disarmament and whose administration was rocked by the Teapot Dome scandal.

ANSWER: Warren Gamaliel \_HARDING\_

10. The name of this country in its own language is completely different from the English- it begins with the letters SHQ. Its past leaders include King Zog and the Communist party boss Enver Hoxha, and it was once known as Illyria. For ten points, name this Eastern European nation whose capital is Tirana.

ANSWER: \_ALBANIA\_

11. On March 27 and 29th, the NCAA Final Four will be held in the ThunderDome. On January 24th, the Super Bowl will be held at 3COM Park in San Francisco. According to a 1970s television show, on September 13th spectacular explosions will knock the Moon out of orbit, stranding the 311 crew members of Moonbase Alpha. Macao will be returned to China, and U.S. troops will pull out of the Panama Canal Zone. This will all happen, for ten points, in which year, a time when the artist formerly known as Prince will be partying?

ANSWER: \_1999\_

12. Set primarily in Jamaica and another unspecified Caribbean island

just after Jamaican independence, it tells the story of Antoinette Bertha Mason's unhappy childhood, marriage, and descent into madness. In terms of sales, it is the most successful of its author's works. FTP, name this Jean Rhys novel, an imaginative retelling of "Jane Eyre" from the point of view of Mr. Rochester's mad wife.

ANSWER: \_WIDE SARGASSO SEA\_

13. This mail route gained national attention in 1925, when it was used to relay 300,000 units of life-saving diphtheria serum to an isolated, epidemic-threatened town. To commemorate the heroic feat, a 56-mile long race was run along the route in 1967. In 1973, the race was lengthened to 1,049 miles, stretching from Anchorage to Nome. FTP, name this most famous of sled dog races.

ANSWER: \_IDITAROD\_ Trail Sled Dog Race

14. Only nominally part of the Ottoman Empire in the 16th century, it was conquered 1924-25 and became part of modern day Saudi Arabia. Its name means "the city" or "the place of jurisdiction" in Arabic. Located in the Hejaz, this city was formerly known as Yathrib, and is located 100 miles east of the Red Sea and 215 miles north of Mecca. FTP, name this city, the site of Mohammed's death in 632 and the destination of his flight in 622.

ANSWER: \_MEDINA\_, Saudi Arabia.

15. Saul had banished all sorcerers and conjurers from his kingdom, but he wished to know what the outcome of Israel's battle against the Philistines would be. Hearing of this woman, he visited her in disguise. She was persuaded by him to violate the law and conjure up the spirit of Samuel, who informed Saul that he would die the next day and that Israel would fall. For ten points identify this 'sorceress of the Old Testament.

ANSWER: the \_WITCH OF ENDOR\_

16. Suppose there is a vacancy in an inner electron shell of an atom. When an electron from an outer shell jumps to fill the vacancy, the energy gained may be released either in an X-ray photon, or by ejecting another electron from the atom. For ten points, identify this mechanism of electron emission, named after the Frenchman who discovered it in 1925.

ANSWER: \_AUGER\_ effect

17. Born in the small village of Rohrau, his most important musical influences were Johann Fux and Carl Philipp Emanuel Bach. His greatest contributions include his string quartets, including the "Horseman" and the "Emperor"; his oratorios, including The Creation, and his symphonies. For ten points, name this man who worked for the Esterhazys for 29 years and who may have composed as many as 200 symphonies.

ANSWER: Franz Joseph \_HAYDN\_

18. In Japan it is known as soroban, and is still used regularly in post offices there. The English word comes from the Semitic through the Greek and means "a table covered with dust or sand." Eventually, the sand table gave way to ruled or grooved tables, and all three types were used in ancient Rome. FTP, name this type of calculating device more commonly associated with East Asia.

ANSWER: \_ABACUS\_

19. In order for it to be useful, the point sources must be of comparable brightness. In symbolic form, it is  $1.22 \lambda / d$ . Effectively, what it says is that the central maximum of one diffraction pattern must coincide with the first minimum of the other. FTP, name this minimally necessary condition for the resolvability of two point sources.

ANSWER: \_RAYLEIGH'S\_ CRITERION

20. Although he was born near Cordoba, Spain, he was taken to Rome as a boy and given an education. In 41 AD, he was banished to Corsica, and while there wrote the Consolations. He was recalled in 49, and became an advisor to Nero. In 62, he retired, but in 65, he was accused of plotting against the Empire, and was ordered to commit suicide. For 10 points, name this Roman statesman and Stoic philosopher, the author of *On Leisure*, *On the Tranquility of the Soul* and *On Anger*.

ANSWER: \_SENECA\_ LUCIUS ANNAEUS (SENECA THE YOUNGER)

21. Katherine, wife of explorer Geoffrey Clifton, had an affair with Count Almasy in the pre-war Cairo. Hana, a nurse, fell in love with Kip, an Indian sapper, when the two met in a church-turned hospital in Tuscany, where she was caring for an unknown patient, who was burned beyond recognition. These two plots are central to what Michael Ondaatje novel, which won the Booker Prize in 1992?

ANSWER: \_THE ENGLISH PATIENT\_

22. He spent 2 years at Dayton High and 9 years at Central High School, racking up 218 wins to only 42 losses. He joined the college ranks in 1946 and had similar success coaching Indiana State. But he is most remembered for the remarkable years his team had between 1967 and 1972 when they won 6 NCAA titles in a row. For ten points, name this legendary coach of the UCLA Bruins.

ANSWER: John \_WOODEN\_

23. Using the special theory of relativity, it was shown that a white dwarf supported solely by a degenerate gas of electrons cannot be stable if its mass exceeds this. Usually equal to 1.44 times the mass of the Sun, it can be larger if the star has not completely exhausted its nuclear fuel. FTP, name this theoretical maximum named for its

Indian postulator.

ANSWER: \_CHANDRASEKHAR LIMIT\_

24. Prosecutors claimed that this general committed mutiny when he seized power from President Choi Kyu-hah, and they also charged him with ordering the massacre of over 200 pro-democracy demonstrators in the southern city of Kwangju in May, 1980. For 10 points, name this man, currently appealing his conviction for these crimes and for amassing a slush fund of hundreds of millions of dollars while in office from 1980-1988 as President of South Korea.

ANSWER: \_CHUN\_ DOO-HWAN

25. To deliver her native city from the onslaught of Nebuchadnezzar, this woman entered the Assyrian camp and killed Holofernes in his drunken sleep. She later showed Holofernes's head to her countrymen inciting her people to victory. FTP, name this legendary Jewish heroine of Bethulia whose story is told in the Apocryphal book bearing her name.

ANSWER: \_JUDITH\_

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Bonuses Written for UCLA B

1. Economic ties have increased with Mexico since the adoption of the North American Free Trade Agreement, but how much do you know about our neighbor to the south?

a) Mexico City is the federal district of the Republic of Mexico, and by far its largest city. (depending on how you count, the largest in the world) For 10 points, how many states does Mexico have?

ANSWER: \_31\_

b) As of the 1980 census, only three cities in Mexico had populations greater than one million persons. One of them is of course Mexico City. For five points each, name the other two cities.

ANSWER: \_GUADALAJARA\_ (1980 pop. 2,178,000)  
\_MONTERREY\_ (1980 pop. 1,700,000)

c) Next, for 5 points each, in what states are the cities of Guadalajara and Monterrey?

ANSWER: \_JALISCO\_ (Guadalajara)  
\_NUEVO LEON\_ (Monterrey)

d) Oddly enough, this state, which borders Texas and New Mexico, is the largest state, with an area slightly smaller than Oregon. For a final 5 points, name it.

ANSWER: \_CHIHUAHUA\_

2. It's been a banner year for homeruns as balls flew out of Major League ballparks at a record shattering pace. Answer these questions about this year's home run hitters.

a) First, for five points name the catcher who broke Roy Campanella's record for home runs by a catcher.

ANSWER: Todd \_HUNDLEY\_

b) Second, for five points, name the Orioles batter who hit his 500th home run this year.

ANSWER: Eddie \_MURRAY\_

c) Finally, for ten points each, name the first shortstop to reach the 30-30 (homeruns and stolen bases) club and the superstar left fielder who became the second player to join the 40-40 club.

ANSWER: 30-30: Barry \_LARKIN\_, 40-40: Barry \_BONDS\_

3. The opening pages of I, Claudius by Robert Graves relate a Sibyllene prophecy about "six hairy men". The first of the hairy men was Julius Caesar. For five points apiece, name the other five hairy men, with a five point bonus for getting them in the correct order.

ANSWER: (in order)

\_AUGUSTUS\_, \_TIBERIUS\_, \_CALIGULA\_, \_CLAUDIUS\_, \_NERO\_

4. Warning: Jeff Goldblum is not an answer. Name these figures of chaos theory for 10 points each.

A) His strange attractor in a simple model of weather convection in 1963 was one of the first examples of dynamical chaos.

ANSWER: Edward \_LORENZ\_

B) His fractal, discovered in 1980, maps the set of Julia fractals in parameter space.

ANSWER: Benoit \_MANDLEBROT\_

C) He pioneered the concept of universality in chaotic systems and demonstrated the notion of periodic doubling; a related constant is named for him.

ANSWER: Mitchell \_FEIGENBAUM\_

5. I will name the countries that border a country; you name the country for 10 points each.

A. Equatorial Guinea and Cameroon to the north, Congo to the south and east.

ANSWER: \_GABON\_

B. Thailand, Laos and Vietnam.

ANSWER: \_CAMBODIA\_

C. Serbia, Bulgaria, Greece and Albania.

ANSWER: Former Yugoslav Republic of \_MACEDONIA\_

6. I will give you the location of a Federal Reserve branch; for 5 points each, plus a bonus of 5 points for all correct, give the letter that appears on paper currency that corresponds to that branch. For example, Boston has an "A" on its bills. No fair peeking in your wallet or purse!

A. Richmond. ANSWER: \_E\_

B. New York. ANSWER: \_B\_

C. St. Louis. ANSWER: \_H\_

D. San Francisco. ANSWER: \_L\_

E. Cleveland. ANSWER: \_D\_

7. For each of the following general organic chemistry reactions give the classification of the resulting products, for fifteen points each.

Example: if the reaction between two things yields a ketone, just answer with "a ketone" or "RC=O R" (R C double bond O R prime):

a) The reaction of a Grignard Reagent with an epoxide.

ANSWER: an ALCOHOL or ROH

b) Ozonolysis of a cyclic alkene followed with hydrogen peroxide treatment.

ANSWER: a CARBOXYLIC ACID or RCOOH

8. FTP each, give the historians who wrote the following texts:

a) The Embarrassment of Riches

ANSWER: SIMON SCHAMA

b) The Rise of the West

ANSWER: WILLIAM MCNEIL

c) The Protestant Ethic and the Spirit of Capitalism

ANSWER: MAX WEBER

9. Seen any good movies lately? For five points each, name the films that have won the Academy Awards for best picture in the last six years (i.e. 1990-1995), in any order.

ANSWER: BRAVEHEART, FORREST GUMP, SCHINDLER'S LIST, UNFORGIVEN, THE SILENCE OF THE LAMBS, DANCES WITH WOLVES

10. FTP each, give the artists of each of the following works.

ANSWERS

a) Nude Descending a Staircase                      MARCEL DUCHAMP

b) Landscape with the Flight into Egypt              ANNIBALE CARACCI

c) Fete Champetre                                      GIORGIONE

11. Welcome to Los Angeles, home of sun, surf, and \*smog\*. Answer these questions about air pollution for 10 points each.

A) Although the air quality in Los Angeles is quite poor, London holds the distinction for having the most lethal smog episode, when an estimated 4000 people were killed by air pollution in one week in 1952. For 5 points each, what two pollutants, emitted in coal combustion, were blamed for the episode?

ANSWER: \_SULFUR DIOXIDE\_ or \_SO2\_, and  
\_PARTICULATE\_ MATTER or \_AEROSOL\_ (accept "sulfates" or "particles")  
PROMPT ON "SULFUR"

B) Sulfur dioxide has never been much of a problem in Los Angeles. Instead, volatile organic compounds react photochemically with oxides of nitrogen to form this colorless, odorless, toxic gas.

ANSWER: \_OZONE\_

C) The term "photochemical smog" was coined as a result of this Caltech scientist's discovery of the importance of photolysis of nitrogen dioxide in air pollution chemistry. FTP, name him.

ANSWER: A. J. \_HAAGEN-SMIT\_

12. Identify the author from the works, 30-20-10.

30: Flowering Judas and Hacienda

20: Noon Wine and Pale Rider

10: Ship of Fools

ANSWER: KATHERINE ANNE \_PORTER\_

13. English is an accretory language: that is, it borrows words from other languages. Given the following English words, tell the language of origin for 5 points each and a bonus of 5 for all correct.

- a) magazine \_ARABIC\_
- b) hexagon \_GREEK\_
- c) hurricane \_SPANISH\_ (accept Mayan)
- d) sirocco \_ITALIAN\_ (accept Arabic)
- e) skunk \_ALGONQUIN\_ (accept Native American)

14. Answer these questions about Pushkin's works for 10 points each.

A. In what work must the hero rescue his bride from the evil magician Chernomor, who had kidnapped her on her wedding night?

ANSWER: \_RUSLAN AND LUDMILLA\_ or \_RUSLAN I LYUDMILA\_

B. In what work does the hero curse a statue of the czar, only to have the statue chase him through the streets of St. Petersburg?

ANSWER: \_THE BRONZE HORSEMAN\_ or \_MEDNY VSADNIK\_

C. This work tells the story of a "superfluous man" and the heroine, Tatiana.

ANSWER: \_EUGENE ONEGIN\_ or \_YEVGENY ONEGIN\_

15. The times they are a-changing, but this question has nothing to do with that. Answer these questions about Greek and Roman mythology from Ovid's \_Metamorphoses\_ for 10 points each.

A) After insulting Cupid, Phoebus Apollo is struck by one of Cupid's arrows, causing him to fall madly in love with this daughter of Peneus. Fleeing from Apollo, she cries to her father for help, and is turned into a laurel tree.

ANSWER: \_DAPHNE\_

B) Bad things continue to happen to poor Apollo. He unwisely promises his son anything he might ask, only to be dismayed when the boy asks to drive the Sun's chariot for a day. Unable to control the horses, the boy literally crashes and burns. FTP, name him.

ANSWER: \_PHAETON\_ or \_PHAETHON\_

C) These two young lovers were next-door neighbors. Forbidden by their parents from seeing each other, they secretly planned to meet outside the city. Mistakenly believing that she was dead, he killed himself, and when she learned what he had done, she did likewise. For 5 points each, name these two lovers, who were not Romeo and Juliet.

ANSWER: \_PYRAMUS\_ and \_THISBE\_

16. No tournament would be complete without a question on rap music. Given a set of lyrics, identify the artist or group for five points, and the song for another five points.

a) "To the extreme, I rock the mic like a vandal;  
Light up the stage, I wax a chump like a candle."

ANSWER: \_"ICE, ICE BABY"\_ by \_VANILLA ICE\_

b) "The sun-roof was open, the music was high;  
And this girl's hand was steadily movin' up my thigh."

ANSWER: \_"PARENTS JUST DON'T UNDERSTAND"\_  
by \_DJ JAZZY JEFF\_ and the \_FRESH PRINCE\_ (prompt on one artist)

c) "Livin' at home is such a drag;  
Your mom threw away your best porno mag."

ANSWER: \_"(You Gotta) \_FIGHT FOR YOUR RIGHT TO PARTY\_"  
by the \_BEASTIE BOYS\_

17. For 10 points each, name the landmark Supreme Court case from the clues provided:

a) In this 1965 case, the Court first held that the Constitution grants an implied right to privacy, and invalidated a law that prohibited the use of contraceptives, even by married couples.

MODERATOR NOTE: FOR ALL CASES, PROMPT IF ONLY ONE PARTY IS GIVEN, AND GIVE 5 POINTS FOR EACH CORRECT PARTY.

ANSWER: \_GRISWOLD v. CONNECTICUT\_

b) This 1961 case mandated that the exclusionary rule for evidence be applied to the states.

ANSWER: \_MAPP V. OHIO\_

c) This 1988 case declared that juveniles under the age of 16 cannot be sentenced to death.

ANSWER: \_THOMPSON V. OKLAHOMA\_

18. Given the country, name its national saint for ten points each:

a) Russia           ANSWER: St. \_NICHOLAS\_

b) Wales            ANSWER: St. \_DAVID\_

c) Hungary         ANSWER: St. \_STEPHEN\_

19. 30-20-10, Name the poem from some lines.

30-- "I think we are in rats' alley, where the dead men lost their bones."

20-- "Where are the roots that clutch, what branches grow out of this stony rubbish?"

10-- "April is the cruellest month, breeding lilacs out of the dead land"

ANSWER: The \_WASTE LAND\_ (by T.S. ELIOT)

20. For five points for each correct answer, name any six of England's monarchs from the House of Plantagenet.

ANSWERS: \_HENRY II\_, \_RICHARD I\_, \_JOHN\_, \_HENRY III\_, \_EDWARD I\_, \_EDWARD II\_, \_EDWARD III\_, \_RICHARD II\_

21. You don't always have to be precise in science; sometimes just the order of magnitude is enough. You'll get 5 points apiece and a bonus of 5 for all correct if you can get within a factor of 10 of the following quantities. Please put your answers in scientific notation, and pay close attention to units!

A) Rest mass of a proton, in kilograms.

ANSWER:  $1.67 \times 10^{-27}$  (10 to the minus 27)

B) Mass of the earth, in kilograms.

ANSWER:  $6 \times 10^{24}$

C) Distance to Alpha Centauri, in meters. (Give 10 seconds for this one)

ANSWER:  $4 \times 10^{16}$

D) Length of an average human sperm, in meters.

ANSWER: 4 to 5 x  $10^{-6}$  or 4 to 5 MICRONS

E) Number of seconds in a century.

ANSWER:  $3.16 \times 10^9$  (Give 10 seconds for this one)

22. Given a battle, give the year that it took place for five points each and five points extra for all correct.

- a. Battle of Hastings ANSWER: 1066
- b. Battle of the Bulge ANSWER: 1944
- c. Battle of Trafalgar ANSWER: 1805
- d. Battle of Waterloo ANSWER: 1815
- e. Battle of Bunker Hill ANSWER: 1775

23. For ten points for each correct answer, name the playwright from his or her Pulitzer prize-winning play.

- a) "Idiot's Delight" ANSWER: Robert E. SHERWOOD
- b) "A Delicate Balance" ANSWER: Edward ALBEE
- c) "Buried Child" ANSWER: Sam SHEPARD

24. 30-20-10, name the country:

- a) Its executive, the Federal Council, is composed of 7 members who rotate the positions of president and vice president.
- b) The people's direct voice in the government is represented through the referendum, initiative, and Landsgemeinde.
- c) It is composed of 20 cantons and 6 half-cantons, with the capital at Bern.

ANSWER: SWITZERLAND

25. Identify the composer, 30-20-10.

30-- His father died when he was six months old, and evidence indicates that his stepfather may have been his biological father.

20-- After participating in the rebellion of 1848, he was forced to flee to Switzerland by the king of Saxony, whom he had previously served as court conductor.

10-- With his wife, he began a fundraising project for an opera house devoted solely to his works in the 1870's.

ANSWER: Richard WAGNER