

## Round 4

### University of Michigan APU--Toss-ups

19 Jun 96

RIP 2/5/98

1) At least he doesn't face Michael Fay's caning sentence as he prepares to return to Singapore to face charges of fraud and forgery. FTP, name this British trader facing a possible 14 prison term for losing \$1.4 billion and causing the collapse of Britain's Barings Bank.

ANS: Nick Leeson

2) "But after I had got them out and shut the door and turned off the light it wasn't any good. It was like saying good-bye to a statue. After a while I went out and left the hospital and walked to the hotel in the rain." Thus Frederic Henry tells of his last good-bye to Catherine at the end of, FTP, what Ernest Hemmingway novel?

ANS: A Farewell to Arms

3) Take the inverse square root of the product of the permittivity constant, which is 8.85 times 10 to the -12th power farads per meter, and the permeability constant, which is 1.26 times 10 to the -6th power Henrys per meter. If you get 2.99 times 10 to the 8 meters per second, then either you have very fast computational skills or know that you have, FTP, what incredibly fast constant?

ANS: the Speed of Light  
ACCEPT: "c"

4) In his final regular season college game, he kicked 7 extra points, but that was only a small part of the NCAA record 43 total points he scored in combination with his 6 touchdowns for Syracuse. FTP, name this running back who went on to set more records in the NFL with the Cleveland Browns.

ANS: Jim Brown

5) Their repeal in 1846 was considered the defining moment in England's move into an industrialized economy with laissez-faire economic ideals. Dating back to 1361, they restricted export and import, and in 1815, a new one was designed to maintain high grain prices in England after the Napoleonic Wars. FTP, name these regulations, considered the first historical protective tariff.

ANS: the Corn Laws

6) Although he strives to make his buildings aesthetically pleasing, he realizes that practical considerations make some standardization necessary, and he often uses standardized parts in construction. FTP, name this architect, the designer of the Mount Sinai Medical Center Complex in New York, the Dallas City Hall, and the National Center for Atmospheric Research in Boulder, Colorado.

ANS: Ieoh Ming Pei

7) It was first climbed by geologist Ardito Desio in 1954, and also by Reinhold Messner in 1979. At 28,251 feet, this peak in the Karakoran range of Northern Kashmir is the second highest in the world. For 10 points, name it.

ANS: K2

ACCEPT: "godwin austin"

8) Phosphodiester covalent bonds between the hydroxyl groups of the sugars join together the alternating sugar and phosphate molecules. Also, a beta-glycosidic bond joins this backbone to a nitrogenous base. FTP, this is a description of the structure of what carriers and mediators of genetic information?

ANS: Nucleic Acids

ACCEPT: "deoxyribose nucleic acid," or "DNA," or "ribonucleic acid," or "RNA"

9) When Allan Carr bought the movie rights to this musical, he had planned to have Ann-Margret and Elvis Presley in the lead roles. The part was once offered to Henry Winkler, who turned it down. Finally John Travolta was chosen for the role, and the female lead was given to Olivia Newton-John. FTP, name this movie musical also starring Stockard Channing.

ANS: Grease

10) All chemical elements have some radioactive isotopes, but not all elements have stable isotopes. The nuclei simply become too massive. FTP, name the lightest, non-manmade element that does not have a stable isotope. Its atomic number is 84 and it is named after a European country.

ANS: Polonium

11) This Congressman, originally a lawyer from Missouri, was elected to the House of Representatives in 1976. He bills himself as a protector of American jobs, and unsuccessfully sought the presidential nomination in 1988. For 10 points, name this Democrat and current House Minority Leader famed for a relative dearth of eyebrows.

ANS: Richard Gephardt

12) A nineteenth century Italian economist developed a very precise definition of efficiency. It states that changes were efficient only if they made one member of society better off without disadvantaging another. FTP, name the economist or the concept.

ANS: Vilfredo Pareto, or Pareto Efficiency

13) Followers of this religion believe man is essentially a free, immortal spirit and must be relieved of past emotional encumbrances. They also think you should donate most of your dough to them and read lots of science fiction. FTP, name the religion founded in 1953 by writer L. Ronald Hubbard.

ANS: the church of Scientology

14) Dominated by bishops from Italy and Spain, it lasted for three sessions and 18 years. It led to a strengthening of orthodox doctrine, revival in religious intensity and, after its first convocation in 1545, the end of the sale of indulgences. FTP, name this papal enterprise.

ANS: the Council of Trent

15) Five bullets to the head is a definite way of saying you don't like someone. The recent suicide bombing in Gaza is thought to be in retaliation for the October assassination of a militant Muslim leader on Malta. FTP, name this person, thought to be one of the leaders of Islamic Jihad.

ANS: Fathi Shakaki

16) It begins with five men running around and enjoying life, until one of them is claimed by the Messenger of Death. Much of the rest of this ballet shows the Messenger as an inescapable companion in all human activity. FTP, name this Kenneth MacMillan ballet, whose name is also the commonly accepted English title of Mahler's ninth symphony.

ANS: the Song of the Earth

DO NOT ACCEPT: "Das Lied von der Erde"

17) It begins with Thrasymachus arguing that it is better to be unjust, but Socrates progressively refutes this as he puts forth the Myth of the Metals and the Allegory of the Cave. FTP, name this work by Plato describing his beliefs about justice and morality.

ANS: the Republic

18) One of the greatest ancient warriors, he sacked Delhi, and soundly defeated the Golden Horde, the Turks and the Mamelukes. The last of the great Mongols, he virtually wiped out Asiatic Christianity but prolonged the life of Byzantium by defeating the Anatolian Turks. FTP give either the literary or true name of this ruler of Samarkand.

ANS: Tamerlane

ACCEPT: "timur the lame"

19) Two come from Gauss, one from Faraday and one from Ampere. The two from Gauss deal with electric and magnetic fields. The one from Faraday deals with electric induction while Ampere's deals with magnetic induction. FTP, give the collective name for these four differential equations, named after the Scottish physicist who put them together.

ANS: Maxwell field equations  
ACCEPT: "electromagnetic field equations"

20) 1980, Philadelphia Flyers , 1981, Minnesota North Stars, 1982, the Vancouver Canucks and 1983, Edmonton Oilers . These teams, in these years, all lost the National Hockey League finals to, FTP, what only American team to win the Stanley Cup four consecutive times?

ANS: New York Islanders  
PROMPT: on "New York"  
PROMPT: if "Stanley Cup finals losers" or equivalent is answered early.

21) The largest cathedral in this city seemed threatened when it was discovered that it had been built directly above the remains of a pyramid known as "El Templo Mayor", built by the Aztecs. The city councilvoted to preserve both, and so they both can be found right across Zocalo from Ernesto Zedillo's office in, FTP, what city?

ANS: Mexico City

22) About two hours east of Memphis, it lies just above the Tennessee-Mississippi border. The most conspicuous date in its history was April 6, 1862, when Ulyseus Grant faced off with Albert Sidney-Johnson. FTP, name this town, the site of a Confederate loss after which it is said that the South "never smiled."

ANS: Shiloh

23) This massive geologic formation, located between two series of abyssal plains and a site of rapid crust formation, has seven groups of islands emerging from its crest. FTP, name this structure beginning along the Reykjani Ridge near Iceland and lying along the North-South axis of the Atlantic Ocean.

ANS: the Mid-Atlantic Ridge

24) This animal's name is Malaysian for "man of the woods." Among zookeepers, they're notorious as lock picking escape artists, which is only natural, as they're one of the few animals to use tools in the wild. FTP, name this large man-like ape with a shaggy reddish coat.

ANS: Orangutan

25) The name of this state means "south wind people" in Sioux, and it was first explored by Coronado. Name – FTP – this state which was acquired through the Louisiana Purchase and entered the Union as a free state on January 29, 1861.

ANS: Kansas

26) It begins with "Loomings," and ends with "The Chase - Third Day." In the Middle are "The Pipe," "The First Lowering," and "Ambergris." These are only a few of the 134 chapter titles in, FTP, what novel, which contains such characters as Queequeg, Starbuck, and Captain Ahab?

ANS: Moby Dick

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27) For a quick 10 points, name the character in Homer's "Iliad" who was the son of Zeus and Europa, who became king of Lycia, and was killed by Patroclus.

ANS: Sarpedon

28) If her husband wins the 1996 election, she could become the first First Lady to work full time outside of the White House when she returns from her one-year leave of absence from her position as the president of the American Red Cross. FTP, name this wife of presidential candidate Bob Dole.

ANS: Elizabeth Hanford Dole

29) This play starts with Marlene hosting a dinner party attended by Isabella Bird, Lady Nijo, Dull Gret, Pope Joan, and Patient Griselda. In general, the play is a commentary on the changing roles of women in society and how women are reacting to these changes. For 10 points, name this 1982 play by Caryl Churchill.

ANS: Top Girls

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## Round 4

### University of Michigan APU--~~XXXXXXXXXX~~ BONI

#### 1) \*25 POINT BONUS\*

He was converted to Buddhism after a battle, and, after conquering the entire Indian subcontinent, concentrated on ruling instead of expanding his territory further. Rock inscriptions and pillars commissioned by him present a new social philosophy, known as Dharma or Universal Law, which provided rational and tolerant principles of action. For 25 points, name this first Mauryan ruler of India, who during the 3rd century BC, sparked the great wave of Buddhist expansion.

ANS: Asoka

#### 2) \*30 POINT BONUS\*

Answer these questions about rules for electron energy placement, FTPE.

- A) This rule states that no two electrons in an atom can be in the same state or configuration at the same time.

ANS: Pauli Exclusion principle

- B) Its name comes from the German for "building-up principle." Formulated around 1920 by Neils Bohr, it states that electrons entering an electric field assume their most stable conditions.

ANS: Aufbau principle

- C) This German physicist's rule states that when there are three or more orbitals of the same energy level, each orbital must be singly occupied before any orbital can have two electrons.

ANS: Hund's rule

#### 3) \*30 POINT BONUS\*

Computers are a part of people's everyday lives, but it was not always this way. Answer these questions about the early computers, FTPE.

- A) Built at the University of Pennsylvania, this \$500,000 machine was the first successful digital electronic computer, using 17,000 vacuum tubes.

ANS: ENIAC

- B) This was the first personal computer, a \$400 kit that was hard to assemble, came with no external memory, no printer and no keyboard.

ANS: ALTAIR

C) This engineer who invented the Altair left the computer industry for medical school and is now a doctor in central Georgia.

ANS: Ed Roberts

4) \*20 POINT BONUS\*

For 5 points each, name these U.S. states given their state mottos.

A) "Liberty and Independence"

ANS: Delaware

B) "The People Rule"

ANS: Arkansas

C) "Friendship"

ANS: Texas

D) "North to the Future"

ANS: Alaska

5) \*30 POINT BONUS\*

Name this author from his works, 30-20-10.

30pts) "An Agony in Eight Fits" and "Sylvie and Bruno."

20pts) "Euclid and his Modern Rivals" and "Curiosa Mathematica."

10pts) "The Hunting of the Snark" and "Through the Looking Glass."

ANS: Lewis Carroll

ACCEPT: Charles Lutwidge Dodgson

6) \*30 POINT BONUS\*

Name the island group 30-20-10

30pts) Composed of over 56 islands, vegetation ranges from dense forest on the larger southern islands to tundra on the northern ones.

20pts) They form a large archipelago in the former Soviet administrative region of Sakhalin.

10pts) Originally settled by Russians, they were seized by Japan in the second half of the nineteenth century. However, the islands switched possession in 1945 and remain a Russian region today.

ANS: Kuril islands

7) \*30 POINT BONUS\*

For a completely different kind of art bonus, name this twentieth-century artist from his quotes, 30-20-10.

30pts) "Every good painter who aspires to the creation of genuine masterpieces should first of all marry my wife."

20pts) "It is difficult to hold the world's interest for more than

half an hour at a time."

10pts) "Take me, I am the drug; take me, I am hallucinogenic!"

ANS: Salvador Dali

8) \*30 POINT BONUS\*

Some people love to be the center of attention. Identify the speaker of all these attention-grabbing quotes, 30-20-10.

30pts) "If we did not have such a thing as an airplane today, we would probably create something the size of NASA to make one."

20pts) "If we decide to take this level of business creating ability nationwide, we'll all be plucking chickens for a living."

10pts) "Which one of these three candidates would you want your daughter to marry?"

ANS: Henry Ross Perot

9) \*30 POINT BONUS\*

As you are probably aware, stocks are often identified not by their full names, but rather by short sequences of letters that often may be abbreviations of the names. For 10 points each, given the ticker symbol, identify the stock it represents.

A) EAT

ANS: Brinker intl.

B) WX

ANS: Westinghouse

C) K

ANS: Kellog

10) \*25 POINT BONUS\*

Most people who have had some physics know that the frictional force between two objects is equal to the coefficient of friction times the normal force. In essence, this means that the frictional force is independent of the amount of surface contact between the two objects. For 25 points, name the French physicist who discovered this law in 1699.

ANS: Guillaume Amontons

11) \*30 POINT BONUS\*

Given a list of works, give the authors for 10 points each.

A. The Snapper, The Van, The Commitments

ANS: Roddy Doyle



B. "The Bacchae," "The Women of Troy," "Helen"

ANS: Euripides

C. Disappearing Acts, Mama, Waiting to Exhale

ANS: Terri McMillan

12) \*20 POINT BONUS\*

For 5 points each, give the name of the person who currently heads each of these departments in the Clinton administration.

A) Labor

ANS: Robert Reich

B) Health & Human Services

ANS: Donna Shalala

C) Treasury

ANS: Robert Rubin

D) Justice

ANS: Janet Reno

13) \*30 POINT BONUS\*

"Pulp Fiction" has become a rather popular movie. Given some quotes from the movie, identify both the character speaking for 5 points, and the actor or actress who plays that character for another 5 points.

A) "Everytime my finger touches brain I'm superfly TNT, I'm the guns of Navarone"

ANS: Jules Winfield (character) (ACCEPT: either name alone)

Samuel L. Jackson (actor)

B) "Warmer... warmer... disco!"

ANS: Mia Wallace (character)

Uma Thurman (actress)

C) "Are you calling on a cellular phone? I don't know you...Prank caller, Prank caller!"

ANS: Lance

Eric Stoltz

14) \*30 POINT BONUS\*

Name the author from the clues, 30-20-10.

30pts) Her first two novels were "The Voyage Out" and "Night and Day."

20pts) One of her more well-known works tells of a day in the life of an English society woman who wonders about love and life as she prepares to host a party.

10pts) The novel briefly described above is "Mrs. Dalloway."

ANS: Virginia Woolfe

15) \*25 POINT BONUS\*

Like the Greeks and Romans, Hindus have a polytheistic religion in which different gods influence different aspects of the world. Given what the Hindu god influences, name

him or her for 5 points each, and a five point bonus for all four correct.

A) the sky

ANS: Varuna

B) fertility

ANS: Karttikeya

C) light

ANS: Mitra

D) thunder

ANS: Indra

16) \*20 POINT BONUS\*

Many southeast Asian countries had been seeking independence from their European colonial masters. Following the surrender of Japan after WWII, many took advantage of the interim between the reestablishment of European government control to seek independence. For ten points each, give the colonial and present name of the colony lead to independence by Achmed Sukarno.

ANS: Dutch East Indies, Indonesia

17) (25) Some reactions in organic chemistry are so useful, or used so frequently that they are given a special name. Given a description of a reaction supply its general name.

a. For ten points, an alcohol is reacted with a carboxylic acid in the presence of a mineral acid to yield a compound that may be used as an artificial flavor.

ANS: esterification

~~b. For fifteen points, name the process by which a carbon containing chain is added to a benzene ring.~~

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ANS: Friedel - Craft reaction or alkylation

18) \*30 POINT BONUS\*

Artem Mikoyan and Mikhail Gurevich are widely respected for their military fighter aircraft creations. For 10 points each, give the common name for the following aircraft.

A) A single-seat, single-engine plane used extensively during the Korean war against the American F86

ANS: MIG-15

B) Designed as a twin-engine, all-weather air superiority aircraft, it entered service in 1970 and has registered speeds of up to 2.8 Mach.

ANS: MIG-25 foxbat

C) Roughly comparable to the American F-16, this was the most advanced aircraft used by the U.S.S.R.

ANS: MIG-29 fulcrum

19) \*30 POINT BONUS\*

It's time to test your knowledge of music theory! More specifically, your knowledge of key signatures. I'll give you the name of a key, and you tell me, for 10 points each, the sequence of sharps or flats in that key, in order from left to right in the key signature.

A) D-major

ANS: F-Sharp, C-Sharp

B) A-minor

ANS: None (no sharps or flats)

C) D-flat major

ANS: B-Flat, E-Flat, A-Flat, D-Flat, G-Flat

20) \*20 POINT BONUS\*

After March's nerve gas attack which killed 12 people and wounded 5,500, a Japanese religious sect is about to go on trial. FIPE, name the Japanese sect accused of releasing the nerve gas and it's bearded and partly blind guru.

ANS: Aum Shinrikyo (ACCEPT "supreme truth sect")  
Shoko Asahara

21) \*30 POINT BONUS\*

For ten points each, name the sea beginning with the letter c.

A) About 300 miles long by 150 miles wide, it is part of the North Atlantic bounded on the northwest by Ireland and the northeast by Wales.

ANS: Celtic Sea

B) 500 miles long by 400 wide, it is part of the South Pacific, bounded on the west by Borneo, on the northwest by the Sulu Archipelago, and on the north by Mindano. It is connected by the Makassar Strait to the Java Sea.

ANS: Celebes Sea

C) Roughly 800 miles by 800 miles, it is part of the Arctic Ocean bordered by Ajon Island to the west, Point Barrow to the east and the Bering Strait the south.

ANS: Chukchi Sea

22) \*20 POINT BONUS\*

You all probably know that Chaucer wrote "The Canterbury Tales," but how much do you know about the tales themselves? I'll give you a rather brief description of two of the tales, and you tell me which one I'm describing for 10 points each.

A) This tale consists of seventeen 8-line stanzas, each one telling how a different prosperous man met his downfall.

ANS: the Monk's tale

B) A man becomes friends with the Devil, and finds out the hard way that the Devil can only take cursed beings to Hell if the curse was truly meant, rather than merely a product of emotion.

ANS: the Friar's tale

23) \*25 POINT BONUS\*

You probably know the secret identities of many superheros, such as Superman and Batman, but how well do you know the secret identities of super-villains? For 5 points apiece, given the real name of a super-villain, give the name by which he is more commonly known.

A) Cain Marko

ANS: the Juggernaut

B) Oswald Chesterfield Cobblepot

ANS: the Penguin

C) Otto Octavius

ANS: Doctor Octopus

D) Harvey Dent

ANS: Two-Face

E) Samuel Sterns

ANS: the Leader

24)\*30 POINT BONUS\*

Many athletes have graced the cover of Sports Illustrated, but, of course, some have graced it more often than others. On the October 23,1995 issue, Michael Jordan took the all-time lead with his 34th appearance.

A) First, for 10 points, whose record of 33 covers did Jordan break?

ANS: Muhammad ALI

ACCEPT: Cassius Clay

B) Now, for 5 points each, and an extra 5 for getting them in order from most to least, what athletes rank 3rd, 4th, and 5th in terms of the number of SI covers they have been on?

ANS: Kareem Abdul-Jabbar (27) (ACCEPT: "lew alcindor")

Jack Nicklaus (23)

Ervin "magic" Johnson

25) \*30 POINT BONUS\*

Answer these questions about Quebec's recent independence referendum for 15 points each.

A) Within 2 percent, what was the record setting turnout percentage on the referendum?

ANS: 92% (accept 90%-94%)

B) This turnout beat the previous record of 85% set the last time Quebecs independence was voted on in what year?

ANS: 1980

26) \*30 POINT BONUS\*

Established around 2250 BC and lasting about 400 years, an empire flourished in what is now Pakistan, which remains mysterious even today. For 15 points each, what are the names of its two largest cities, both neatly designed, with residential districts, elaborate drainage systems and many houses with their own bathrooms.

ANS: Harappa, Mohenjo-Daro