

2000 MLK Memorial

Questions by Penn State A

(Members: Matt Hofer, Rob Knobel, Tom Shields, Cathy Vrentas)

Tossups

1.

Its most famous alcoholic beverage was first brewed in 1927, the same year that its beloved Magpies won their last league championship. This English city has achieved somewhat of a renaissance in recent years, despite being in the economically depressed northeast. FTP, name this city, situated on the Tyne River and known for soccer's St. James' Park and for its Brown Ale.

Answer: Newcastle-upon-Tyne

2.

Stephen Jay Gould attacked his view that intelligence corresponded to brain size. His other views, however, have more influence in the study of the brain. FTP name this Frenchman, who in 1861 linked language and speech and has an area on the front part of the left hemisphere named after him.

Answer: Paul Broca

3.

A stand-up comic, he was elected to San Francisco's Board of Supervisors in 1994, where he serves as president. After an impromptu write-in campaign he advanced to a runoff election against incumbent mayor Willie Brown in 1999, but was defeated. FTP name this man, who would have become the first openly homosexual mayor of a major U.S. city.

Answer: Tom Ammiano

4.

Its first study was of Cassiopeia A and it detected what may be the neutron star core. Launched in July 1999, it is sensitive to photon wavelengths around 1 nanometer and it uses grazing incidence mirrors, unlike optical telescopes. FTP name the most powerful x-ray telescope ever built, named in honor of an astrophysicist from the University of Chicago, whose name means "luminous" in Sanskrit.

Answer: Chandra X-ray Observatory

5.

She begins by relating her experiences from New York and from college, which include her attempts at fiction writing. Her narrative takes a sudden turn, and she begins a discussion of the electroshock therapy she undergoes in hopes of a cure. In the end, she recovers, but her friend Jean does not. FTP name this semi-autobiographical Sylvia Plath character in *The Bell Jar*.

Answer: Esther Greenwood (accept either part of the name)

6.

Two years after his election in 1992, he dissolved congress and imposed censorship of the press, not an especially unusual feat in South America. On the plus side, he launched the successful raid against the terrorist-held Japanese embassy in Lima. FTP name this current president of Peru.

Answer: Alberto Fujimori

7.

They are often tributaries that flow in back-swamp areas and cannot flow up the natural levees on the banks of the main stream. Consequently, they flow parallel to the main stream for long distances. For 10 points—name this type of stream, named for a river in Mississippi.

Answer: Yazoo stream

8.

In this 1981 film from director John Boorman, the repeated use of Wagner's *Funeral March* from "Siegfried" and Orff's "Carmina Burana" work perfectly, especially given the medieval setting of the film. Both Patrick Stewart and Liam Neeson have bit parts, but Nicol Williamson as Merlin steals the movie. FTP name this film adaptation of Thomas Malory's great work.

Answer: Excalibur

9.

He was born in 1925, becoming prime minister in 1962. He served as president of his country from 1966 to 1971, when he was deposed by Idi Amin. FTP name this man, known for massacres in the Luwero Triangle area, who also served as Uganda's president from 1980 to 1985.

Answer: Apollo Milton Obote (known as Milton Obote) pronounced o-BO-tay

10.

Based on a novel by Henri Murger, whose own former life of poverty reflected that of his characters, this opera was first performed in 1896 in Turin. It opens in the attic of a house in Paris, where a young poet gazes out the window while his painter friend works studiously. FTP name this opera, whose characters include Schanard, Marcello, Rodolfo, Mimi, and Musetta, arguably the masterpiece of Giacomo Puccini.

Answer: La Boheme

11.

Its source is on the slopes of the Sierra Parima. Early in its course, it divides, with one arm flowing into a tributary of the Amazon and the other continuing its course to this river's large delta. FTP name this South American river that flows approximately 1,700 miles to its outflow near Trinidad and is the major river of Venezuela.

Answer: Orinoco River (Rio Orinoco)

12.

It explains that it is impossible for a system working in a cycle and connected to a single heat reservoir to produce a positive amount of work in the surroundings, and explains why heat flows from high to low temperatures. It deals with the efficiency of Carnot cycles, and it predicts the impossibility of perpetual motion machines. FTP name this basic principle of science.

Answer: 2<sup>nd</sup> Law of Thermodynamics

13.

It was originally only in one building, but later had thirteen buildings. Also, it helped the large immigrant population of Chicago to learn English. FTP name this social settlement, founded in 1889 by Jane Addams and others.

Answer: Hull House

14.

According to Ovid, he was the son of Telephassa and Agenor, and was ordered by his father to find his sister or suffer exile. After roaming around Thessaly, he consulted the Delphic oracle, which told him to found a city where an unfettered cow stopped to rest. FTP name this mythological figure, the brother of Phoenix and Cilix, who sowed the serpent's teeth that grew into men and founded the city of Thebes.

Answer: Cadmus

15.

From 1876 to 1878, he traveled in the U.S. as a foreign correspondent, living in a colony founded by the actress Helena Modjeska. After returning to his native country, he edited the *Slowo*, and during this period he wrote the novels that are translated as *With Fire and Sword*, *The Deluge* and *Pan Michael*. For 10 points, name the Polish author of *Quo Vadis* who won the Nobel Prize in literature in 1905.

Answer: Henryk Sienkiewicz (pronounced Shinkevitch)

16.

He played with clubs such as Juventus and Vicenza during his career. After a suspension for match fixing, he was on the Italian roster for soccer's 1982 World Cup in Spain. FTP name this Italian striker, who's six goals earned him the scoring title and led Italy to its third World Cup.

Answer: Paolo Rossi

17.

Built in 1754, it was established as a national battlefield site in 1931 and as a national battlefield in 1961. The encounter fought here is also known as the Battle of Great Meadows, and it is located in Fayette County, Pennsylvania. FTP name this hastily constructed fort, the site of a battle and siege during the French and Indian War, where George Washington surrendered to the French.

Answer: Fort Necessity

18.

The surviving parts of this romance are a medley of philosophy and real life, prose and verse, held together in a fictitious story of the disreputable adventures of Encolpius and two companions, Ascyltus and Giton. In the course of their travels, they attend a wildly extravagant dinner party given by the rich freedman and pederast Trimalchio. FTP name this work by Petronius, often considered the first Latin novel.

Answer: the Satyricon

19.

A former New York City police officer, he is infamous for events in the 70<sup>th</sup> precinct. The brutal assault that he led there would add fuel to New York's racial fire and further tarnish the police. FTP name this man, who was sentenced to 30 years in prison on December 13, 1999 for civil rights violations following the 1997 assault of Abner Louima.

Answer: Justin Volpe

20.

The composer of this symphony supposedly jotted down in a sketchbook a musical idea that was eventually to become the slow movement with the heading "the deeper the brook, the deeper the sound". Influenced by Haydn's Oratorios *The Creation* and the *Seasons*, other movement titles include "Merry gathering of the country folk" and "Happy and thankful feelings after the storm". FTP name this symphony which premiered in 1808, which gained popularity for its role in Disney's *Fantasia*.

Answer: Beethoven's 6<sup>th</sup> Symphony (also accept Pastoral Symphony)

21.

Born in Fontainebleau, he was the grandson of Louis IX. After acceding to the throne in 1285, he quarreled with the church. For 10 points--name this French king of the Capetian dynasty, best known for moving the papacy to Avignon in 1309.

Answer: Philip (or Philippe) IV (also known as Philip the Fair or Philippe le Bel)

22.

It includes the *Gnetophyta*, an odd division containing only three species. It also contains the *Cycadophyta*, a division containing short, thick-stemmed plants with large palm-like leaves, most of which are confined to tropical regions. The third division in this group is the more familiar *Ginkophyta*, which includes only one species, and the *Coniferophyta*, the division that includes most of the plants in this grouping. FTP name this type of vascular plant that bears naked seeds.

Answer: Gymnosperm (s)

23.

His two major works include the poems *On Nature* and *Purifications*, where he expounds on a cyclical view of the cosmos governed by Love and Strife. FTP name this pre-Socratic

philosopher who theorized that the universe was composed of only earth, fire, air and water, who allegedly threw himself into Mount Aetna.

Answer: Empedocles

24.

This religion, which is not Christianity, believes in a man who was executed paving the way for a Promised One. This so-called Promised One took a name that means "Glory of God" and spent many years in Persian jails. FTP name this religion, founded in 19<sup>th</sup> century Persia and known for figures such as the Bab and Baha'u'llah.

Answer: Baha'i Faith

25.

He made his first appearance by informing the world that he doesn't advertise. His pet goldfish passed away, but he is unable to extract them from his shoe. His clumsy passes at Marge are made more awkward when he discovers she has children. FTP name this character on *The Simpsons*, known for his trademark '70's style and for his rather large hair.

Answer: Disco Stu

26.

She was born in 1959 to a Quiche Indian family. Her writings criticize the political situation in her native Guatemala. FTP name this woman, who won the 1992 Nobel Peace Prize and who has been recently criticized for inaccuracies in her autobiography.

Answer: Rigoberta Menchu Tum

27.

**Two answers required.** They are plotted on an X-axis measuring real GNP and a Y-axis measuring the price level. For the one curve, price level and planned real expenditures are inversely related, and fiscal policy attempts to shift it through an increase in government expenditures or a decrease in taxes. The other curve shows a positive relationship, and its slope is used to calculate the GNP multiplier. FTP identify these two curves or schedules from Keynesian monetary theory.

Answer: Aggregate Supply and Aggregate Demand

28.

It borders Tanzania, Zambia and Mozambique. This former British colony became independent in 1965 and was formerly known as Nyasaland. FTP name this finger-shaped African country, whose capital was moved from Zomba to Lilongwe in 1975 and which sits just west of the third largest African lake, with which it shares its name.

Answer: Malawi

### Bonuses

1.

Identify the following German states (lander) from their capitals, for the stated number of points.

(5) Munich (Munchen)

Answer: Bavaria (in German: Bayern)

(10) Dresden

Answer: Saxony (in German: Sachsen)

(15) Dusseldorf

Answer: North Rhine-Westphalia (in German: Nordrhein-Westfalen)

2.

Answer the following questions about intercellular transport, for ten points each.

- (10) This organelle is just an intermediary between the trans Golgi network and the lysosomes.

Answer: Endosome

- (10) Proteins that are not destined for the endosome, but instead leave the Golgi in secretory vesicles to be released from the cell, undergo this basic process of cellular secretion.

Answer: Exocytosis

- (10) The proteins that leave the Golgi and are inserted into the plasma membrane often undergo this chemical modification process, the two forms of which are "O" and "N".

Answer: Glycosylation

3.

Answer the following about the political world of Islam after Muhammad's death, for ten points each.

- (10) This successor to Uthman was caliph from 656 to 661, and was considered the true model for the Caliph. His followers formed the Shi'a party to preserve his beliefs.

Answer: Ali

- (10) After the murder of Ali, the caliphate passed to Mu'awiya, who founded this dynasty, which provided caliphs from 661 to 750.

Answer: Umayyad [accept reasonable pronunciations]

- (10) The Umayyads moved the capital of the caliphate to this city, more centrally located than Mecca and Medina.

Answer: Damascus

4.

Identify the Shakespearean plays from which the following literary titles were derived for 15 points each.

- (15) *Cakes and Ale*

Answer: *Twelfth Night*

- (15) *Under the Greenwood Tree*

Answer: *As You Like It*

5.

Identify the following questions about tobacco in 1999, for ten points each.

- (10) This 1999 film starred Al Pacino and Russell Crowe and detailed the case of Jeffrey Wigand, a whistleblower on the tobacco industry.

Answer: *The Insider*

- (10) Mary Farnan and Frank Amodeo were symbols of a major lawsuit against six tobacco companies in this state.

Answer: Florida

- (10) Wigand blew the whistle on this company, one of the six defendants in the suit.

Answer: Brown & Williamson

6.

Given the year, name the U.S. presidential candidate who finished second in that election in electoral votes, for ten points each.

(10) 1828

Answer: John Quincy Adams (prompt on "Adams")

(10) 1844

Answer: Henry Clay

(10) 1868

Answer: Horatio Seymour

7.

Answer these questions about the U.N. for ten points each.

(10) The Secretary-General's renewable term lasts for this number of years.

Answer: Five

(10) The U.N. Security Council has this many members. (Hint: Five are permanent.)

Answer: Fifteen

(10) Name any one of the three nations, all Pacific island nations, that joined the U.N. on September 14, 1999

Answer: Kiribati (pronounced Kiribass)  
Nauru  
Tonga

8.

Name these texts of Confucianism, for ten points each.

(5) It was probably compiled by the second generation of Confucius' students and is the most revered text of Confucianism.

Answer: The Analects or the Lun-yü

(10) It combines divinatory art with numerological technique and ethical insight. One of the "Five Classics", it describes the constant interaction of two vital energies, yin and yang and has been attributed to Wen Wang.

Answer: I Ching or Yi Ching or Yi Jing or Classic of Changes or Book of Changes

(15) One of the "Four Books", it is a brief treatise linking humane government with the personal integrity of rulers. It existed for centuries as a chapter of the Li chi, but was separated by Chu Hsi to be used for teaching civil servants.

Answer: Ta hsüeh or Great Learning or Da xue

9.

For 5 points each—name three of the five composers of the "Russian Five," also known as the "Mighty Handful". (Accept first three directed answers.)

Answer: Mily Balakirev  
Alexander Borodin  
Caesar Cui  
Modest Mussorgsky  
Nikolai Rimsky-Korsakov

For 5 points each—name three of the five members of the "Russian Five" from the NHL's Detroit Red Wings in the mid-1990's.

Answer: Sergei Fedorov  
Vyacheslav Fetisov  
Vladimir Konstantinov  
Vyacheslav Kozlov  
Igor Larionov



10.

Identify these figures of Mexican politics, for ten points each.

- (10) He defeated three PRI rivals in November 1999, winning Mexico's first presidential primary.

Answer: Francisco Labastida

- (10) He finished second in the PRI primary and decided to remain in the party.

Answer: Roberto Madrazo

- (10) This former state governor looks to be the presidential candidate of the rightist PAN.

Answer: Vicente Fox

11.

Can't get there from here? Answer these topological questions, ten points each.

- (10) It is this topological structure which prevents an object from being continuously shrunk to a point.

Answer: hole

- (10) It is a line in the complex plane across which a multivalued function is discontinuous. An example is the negative real axis for the natural logarithm of  $z$ .

Answer: branch cut

- (10) This object can be constructed by gluing both pairs of opposite edges of a rectangle together giving one pair a half-twist, but can be physically realized only in four dimensions, since it must pass through itself without the presence of a Hole. It can be cut in half along its length to make two Mobius strips, but can also be cut into a single Mobius strip.

Answer: Klein bottle

12.

Answer the following questions about disasters in or near the U.S. in the second half of the twentieth century.

- (5/5) These two ships collided off Nantucket on July 26, 1956, killing 51 people.

Answer: Andrea Doria and Stockholm

- (10) A United Airlines DC-10 crashed at this Iowa city's airport on July 19, 1989.

Answer: Sioux City

- (10) This hurricane killed 256 people in Mississippi and Louisiana in 1969.

Answer: Camille

13.

Identify the major muscle of the human body from a description of its function, for ten points each.

- (10) The longest muscle of the human body, it bends the knee and twists the leg.

Answer: Sartorius

- (10) It works to pull your heel up when you stand on tiptoe.

Answer: Gastrocnemius

- (10) It pulls the shoulder back and helps you to lift your arm.

Answer: Trapezius

14.

Identify the following somehow related terms from the field of economics, for ten points each.

- (10) This is the Latin phrase that means "Other things being equal," a condition that is assumed to analyze the isolated effect of one variable.

Answer: Ceteris Paribus

- (10) It is the type of inflation due to an increase in the cost of imported raw materials or in the wage rates and profit margins.

Answer: Cost-push inflation

- (10) This is the condition in which the opportunity costs of producing a good are lower for one nation than for its trading partners.

Answer: Comparative Advantage

15.

Given the name of a song used in a Quentin Tarantino film, give the group that performed it, FTPE.

- (10) "Didn't I Blow Your Mind This Time"

Answer: The Delphonics

- (10) "Coconut".

Answer: Harry Nilsson

- (10) "Let's Stay Together"

Answer: Al Green

16.

Identify the following about an art movement FTP each:

- (10) Although it was coined in relation to the work of Kandinsky it was applied to a movement in America that flourished in the 1940s and 1950s.

Answer: Abstract Expressionism

- (10) This abstract expressionist attended the academy van Beeldende Kunsten in Rotterdam and painted "Black and White Abstraction."

Answer: Wilhelm de Kooning

- (10) This photographer depicted depression era NYC in works such as "Bowery: Dead End."

Answer: Aaron Siskind

17.

Identify the member of the U.S. House of Representatives, given his position, for ten points each.

- (10) Majority Leader

Answer: Dick Armey

- (10) Majority Whip

Answer: Tom DeLay

- (10) Minority Whip

Answer: David Bonior

18.



Identify the NFL wide receiver, given a brief description, for ten points each.

- (10) He was selected with the 19<sup>th</sup> pick in the 1996 NFL draft out of Syracuse. He has been one of the three keys to the Indianapolis offense this season.

Answer: Marvin Harrison

- (10) He attended the school then known as Memphis State. Wearing #80, he was a star for the Rams during their down years, making his first Pro Bowl in 1996.

Answer: Isaac Bruce

- (10) He holds the all-time Raider record for career catches. He attended Notre Dame and won the Heisman Trophy in 1987.

Answer: Tim Brown

19.

Name the 20<sup>th</sup> century American female poet who authored each of these poems, for ten points each.

- (10) "The Pangolin" and "Days of Prismatic Color".

Answer: Marianne Moore

- (10) "At Baia" and "Helen".

Answer: Hilda Doolittle (accept H.D.)

- (10) *Tender Buttons*, a collection of many pseudo-poems.

Answer: Gertrude Stein

20.

For the stated number of points, answer these question about achieving very low temperatures:

- (5) Helium is the cryogen used most often for low temperatures. Within one degree, what is the standard pressure boiling temperature of Helium-4 in Kelvin?

Answer: 4.2 K (-269 degrees C)

- (5) A rare isotope of helium has a lower boiling temperature. What isotope is this?

Answer: Helium 3

- (10) To go to the milliKelvin regime, a mixture of helium-4 and helium-3 can be circulated through a system, extracting the helium-3 preferentially, and using the latent heat to cool the surroundings. What is the name of such a device?

Answer: dilution refrigerator

- (10) For lower temperatures (microkelvin), add large amounts of certain complex salts or metals such as copper that are put in a large magnetic field at fixed temperature and cool as the field is reduced. What type of magnetic behavior allows this phenomenon?

Answer: paramagnetism (of either electrons or nuclei, for salts and metals, respectively)

21.

For 10 points each—given the U.S. city, name the county in which it is situated.

- (10) Pittsburgh, Pennsylvania

Answer: Allegheny County

- (10) San Antonio, Texas

Answer: Bexar County

- (10) Phoenix, Arizona

Answer: Maricopa County

22.

Identify the famous ballet dancer from a brief description, for ten points each.

(10) Along with creating the title role in *La Sylphide*, she was the first dancer to go en pointe.

Answer: Marie Taglioni

(10) In 1961, he left the Kirov Ballet to dance in the west.

Answer: Rudolf Nureyev

(10) Nureyev made his legendary debut in the Royal Ballet's production of *Giselle*, in which he began his long partnership with this ballerina.

Answer: Margot Fonteyn

23.

Given a country's name for itself in its native language, name it in English, for ten points each.

(10) Republika e Shqiperise (pronun. Shkiperise?)

Answer: Republic of Albania

(10) Druk-Yul

Answer: Kingdom of Bhutan

(10) Suomen Tasavalta

Answer: Republic of Finland

24.

In 1999, A&E identified 100 biographies of the most notable people of the millennium. For 10 points each, name their top three individuals, two of them Germans who lived before 1600 and an Englishman who lived during the Glorious Revolution. (No order required.)

Answer: Johann Gutenberg, Isaac Newton, Martin Luther

25.

For 10 points each—given the year and country, name the ruling dynasty.

(10) 1778, France

Answer: House of Bourbon

(10) 1801, China

Answer: Qing dynasty (accept Manchu)

(10) 1880, Brazil

Answer: House of Braganza

26.

Identify the following Chinese poets from a brief description on a 15-5 basis.

(15) This lyric poet became the official poet laureate to Prince Lin in 756, but he was banished two years later after the prince was beheaded.

(5) He is rumored to have drowned because he tried to catch the moon's reflection from a boat.

Answer: Li Bo or Li Po

(15) He was the author of the Lu Shi, or the "regulated verse." He was also held captive after the 755 Anshulan rebellion.

(5) He befriended the elder poet Li Po in his youth and he is widely regarded as the greatest of Chinese poets.

Answer: Du Fu or Tu Fu