Tossups by University of Tennessee Team B for 1990 U.S. Open

1. Donna Gail Manson, a student at Evergreen State College; Roberta Kathleen Parks, a student at Oregon State; Georgana Hawkins, a student at the University of Washington; and Margaret Bowman and Lisa Levy of Florida State University were all victims of this "AllAmerican" sex-murderer executed in 1989. For 10 pts. who was he?

ANS. Ted Bundy
2. Born in Cologne, Germany in 1876 , he received his law degree in 1901. Elected Lord Mayor of Cologne in 1917, he was removed from office by the Nazis in 1933. He was arrested by the Gestapo in 1944 as an enemy of Hitler. He became leader of the Christian Democrats in 1946 and became Chancellor of West Germany in 1949. For 10 pts. name this German leader.

ANS. Konrad Adenauer
3. The announcement was made on the Donahue show of February 5, 1990 that the African American Catholic Church was going independent of the Roman Catholic Church. The announcement was made by the controversial leader of this group, who had already been suspended by the Church for his charismatic sermons and efforts to allow black Catholics to worship in their own style. For 10 pts. name this leader of the split-off church, founder of the Imani Temple.

ANS. George Stallings, Jr.
4. Harkng nothing to dd with etther bilpder foognonhy, This novel deses presents fanciful and satirical view of the evolution of human society, as well as parodying French history. It culminates with a savage treatment of the Dreyfus case. For 10 pts. name this 1913 novel by Anatole France. ANS. Penguin Island
5. Originally defined by Irving Langmuir, this substance is useful in research on ultra high temperature processes and controlled fusion. Composed of a nearly equal number of positive and negative free ions, it is technically a highly ionized gas. For 10 pts. what is it?

ANS. Plasma
6. A borough of New Jersey in Morris County, the site of Drew University; a city and county seat of Jefferson County, Indiana; and the city located on the isthmus between Momona and Mendota lakes, 75 miles west of Milwaukee, which serves as the capital of Wisconsin For 10 pts. what name is shared by all these places?

ANS. Madison
7. A 1731 novel by Antoine-Francois Prevost, it served as the inspiration for an 1884 opera by Jules Massenet and an 1893 opera by Puccini. For 10 pts. what is this work of literature and music?

ANS. Manon Lescaut
8. He moved his capital from Thebes to Tel el-Amarna. His father was Amenophis III, be he rejected his father's name. He established worship of Aton, thus replacing the old gods with only one. For 10 pts. name this pharaoh, husband of Nefertiti.

ANS. Akhenaton or Ikhanaton (accept
Amenophis of Amenhotep IV)
9. His apartments have secret hiding places; he carries false identity cards; his trench coat has 23 pockets; and his car is always stocked with food and weapons in case he needs to make a quick getaway. This paranoia was probably brought on by his childhood experiences during wartime Poland when he was abused and beaten by peasants; experiences he recounted in his novel The Painted Bird. For 10 pts. name this novelist, author of Being There.

ANS. Jerzy Kosinski
10. First appearing in the Early Cambrian Era, this phylum's members are subdivided into four subphylums Homalozoa, Crinozoa, Echinozoa, and Asterozoa.
Members of this phylum are headless with a five-fold radial symmetry. For 10 pts. what is this marine phylum of which the starfish is a member?

ANS Echinodermata
11. At attempt by Bismark to reinvoke the Metternich balance of power, it was based on little more than a mutual interest in suppressing revolution and preventing a coalition against its members. Joined by Italy in September, 1783, it was formed earlier in 1873 by Germany, Austria and Russia. For 10 pts. name this diplomatic coalition, forerunner of the Dual and Triple Alliances.

ANS. Three Emperor's League or League of the Three Emperors
12. He predicted the formation of "a Pentecostal condition of universal understanding and unity...a general cosmic consciousness," in his popular book, Understanding Media. In the 1960's, he promulgated the idea of a new "global village," a world knit together and transformed by TV and other marvels of the electronic age. For 10 pts. name this important media
theorist.
ANS. Marshall McLuhan
13. This phrase was first employed in the Edinburgh Review of August, 1817. Byron satirizes the term in the Dedication to Don Juan. Thomas DeQuincey, sometimes grouped with this term, wrote a recollection in which he denied the existence of any such school known by this phrase. Nonetheless, we still use it to collectively refer to the poets Southey, Coleridge, and Wordsworth. For 10 pts. what is this term?

ANS. Lake Poets
14. He introduced the term catalyst into chemistry and was the first to elaborate on the nature of the importance of catalysis. He was primarily responsible for the theory of radicals and discovered three elements, cerium, selenium, and thorium. For 10 pts. name this chemist, made a baron in 1835 by Charles XIV John King of Sweden and Norway.

ANS. Jons Berzelius
15. As Pasupati, he is protector of cattle, as Nataraja, the god of letters, music and dancing. His spouse is essentially Devi ("the goddess"), but she is also known by the names Parvati and Kali. For 10 pts. name this post-Vedic god, best known as the destroyer. ANS. Siva or Shiva
16. Although he never won an Academy Award, he was nominated for Best Supporting Actor for The Verdict and Best Actor for A Star is Born. A respected British actor, his other films include The Desert Fox, 20,000 Leagues Under the Sea, and North by Northwest. For 10 pts. name this actor. ANS. James Mason
17. Her writings include A Plan for Maternity Care and The Roosevelt I Knew. She served on the New York State Industrial Board from 1923-29, and in 1929 Governor Roosevelt appointed her State Industrial Commissioner. Her connection to FDR paid off in 1933 when he appointed her Secretary of Labor. For 10 pts. who was this woman, the first woman cabinet member?

ANS. Frances Perkins
18. While on a journey with former president, and college chum, Franklin Pierce to New Hampshire, he died in 1864. A copy of his "The Dolliver Romance" was carried on his coffin as he was buried in Sleepy Hollow Cemetery in Concord, Massachusetts. For 10 pts name this author of Twice-Told Tales and The Blithedale Romance.

ANS. Nathaniel Hawthorne
19. Activated 7-dehydrocholesterol, one of this vitamins two varieties, is secreted at the surface of the skin where it is activated by sunlight. The other variety, calciferol, is prepared by the ultraviolet irradiation of ergosterol. For 10 pts. give the general term for these two chemically similar fatsoluble, sterol-like compounds.

ANS. Vitamin D
20. He was close friends with the likes of Emile Zola and Camille Pissarro until he retired to Aix in 1879, breaking with his old friends. While in seclusion, he began developing a new style of painting which by use of color and tone accentuated the geometrical forms in nature. For 10 pts. name this artist considered the founder of postimpressionism, famous for his still lifes.

ANS. Paul Cezanne
21. Wiped out by the Roman general Suetonius Paulinus about 58 A.D. in their last stronghold, the island of Anglesey, little is known of them except that they worshipped in sacred oak groves. For 10 pts. name this Celtic sect.

ANS. Druid or Druidism
22. The name of a valley located between Wuppertal and Dusseldorf, it was here in 1856, that the remains of prehistoric man was found. For 10 pts. name this valley.

## ANS. Neanderthal

23. It was as this that Julius Caesar revised the calendar in 64 B.C. The title later reverted to members of the college of pontifices and was used for the pope. For 10 pts. name this title originally that of the head of Roman religion.

ANS. Pontifex maximus
24. Their distinctive feature is the siliceous wall which is in two halve, one fitting over the other like the lid of a box. Of the class Baillariophyta, they are one-celled algae common in fresh and salt water. For 10 pts. what are they?

ANS. Diatoms
25. Dysart, an overworked child psychiatrist in a provincial British hospital, accepts as a patient Alan Strang, a part-time stable boy who has inexplicably blinded six horses. For 10 pts. this is a basic summary of what Peter Shaffer play.

ANS. Equus

University of Tennessee Team B Bonuses for 1990 U.S. Open

1. (30 PTS.) Now we all know that the Pauli Principle excluded two particles in a given system to exist in the same quantum state. The quantum state is represented by four numbers, each of which has been given a name by physicists. For 10 points a piece, name each of the following quantum numbers described. a. It represents the direction of a particle's angular momentum, and is designated "m-sub-貫".

Ans. Magnetic quantum number
b. It represents a particle's energy and is designated
n .
Ans. Principle quantum number
c. It represents the magnitude of a particle's angular momentum, and is designated 1.

Ans. Orbital quantum number.
2. (30 PTS.) Identify this product, 30-20-10.
a. This succotash of sweets was the brainchild of a German immigrant F.W. Rueckheim which he largely introduced to the world at the 1893 Chicago Worlds Fair.
b. The name for this product evolved from two words. One, a Northeastern vernacularism meaning "excellent" and the other a breezy address for a man whose name is unknown. In 1916, a sailor boy and his black and white dog, Bingo, began to appear in product advertisement. c. At first, a box of this confection came with a discount coupon toward a subsequent purchase, but in 1913, this product became well-known for the prizes it contained. Each ounce of this candy now contains exactly nine peanuts.

ANS. Cracker Jack
3. (30 PTS.) Identify the authors of these influential military strategy works, 10 pts. each.
a. The Influence of Sea Power Upon History ANS.

Alfred T. Mahan
b. On War

ANS. Karl
von Clausewitz
$\checkmark$ c. The Art of War
ANS .
Sun Tzu
4. (30 PTS.) During World War I, a number of English poets distinguished themselves by depicting in verse the glory and horror of the war. Identify these three poets, for 10 pts. each.
a. Unlike most of the wartime poets, he survived the war. His work, such as "Counter-Attack and Other Poems" present an angry and satirical view of the war. ANS. Siegfried Sassoon
b. Killed a week before the armistice, his works were published by Siegfried Sassoon. He is best known for Dulce Et Decorum Est.

ANS. Wilfred Owen
c. Dying in 1915 of septicemia, was more celebratory of
the romanticism and patriotism of the war. His works include 1914 and Other Poems.

ANS. Rubert Brooke
5. (25 PTS.) Identify these parts of the eye for 5 pts. each.
a. When the image of a well-lighted object falls on this part of the retina, all spectral colors of the light can be distinguished.

ANS. Fovea
b. This is a mucous membrane lining the space between the eyelids and eye balls.

ANS Conjunctiva
c. This is the watery fluid filling the anterior and posterior chambers of the eye. ANS.
Aqueous Humor
d. From the anterior chamber of the eye, the aqueous humor passes through these small spaces in the scleral meshwork at the iris angle.

ANS. spaces of Fontana
e. The vascular tunic of the eyeball consists of the ciliary body, the iris, and this middle layer of the eyeball. It is a thin, dark brown, highly vascular membrane lying within the sclera.

ANS. Choroid
6. ( 30 PTS.) Identify each of the following exponents of Pop Art form from brief clues, 10 pts. each. a. he collaborated on a project entitled "Fizzles" with the late Nobel Laureate Samuel Beckett, and was born in North Augusta, South Carolina. He is known for depictions of flags and targets.

ANS. Jasper Johns
b. Born in the same town which produced Katherine Anne Porter, he pasted everyday, mass-produced objects on his canvases, and pioneered photomontage and silkscreening technique.

ANS. Robert Rauschenberg
c. The leading European exponent of Pop Art, he constructed "soft machines," like typewriters and toilets, out of plaster paint and plastic.

ANS. Claes Oldenberg
7. (25 PTS.) 10 pts. for 1,25 pts. for both, identify these two terms used to describe religious groups. a. This term was used during the 16 th and 17 th centuries to describe the Scottish Presbyterians who banded together in a series of agrements to defend their religion against royal encroachments.

ANS. Convenanters
2. This term was used to describe followers of John Wycliffe.

## ANS Lollards

8. ( 30 PTS.) Given the title of a modern drama, name its author, 5 pts. each.
a. The Quare Fellow

Xb. A Taste of Honey
Xc. The Connection

Gelber
Xd. The Balcony
e. Rhinoceros

Xf. The Birthday Party

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\begin{array}{ll}
\text { ANS. Brendan Behan } \\
\text { ANS. Shelagh Delaney } \\
& \text { ANS. Jack } \\
\text { ANS. Jean Genet } \\
\text { ANS. Eugene Ionesco } \\
& \text { ANS. Harold }
\end{array}
$$

## Pinter

9. (25 PTS.) The French have adopted many English words into French so as to create "Franglais." However, sometimes the meaning is changed. Given the English word, tell what it means in "Franglais."
Xa. "le sitting" ANS. Sit-down strike
Xb. "stone"

> ANS. stoned or high
(on drugs)
Yc. "le footing"
ANS. Jogging
Xd. "baskets"
ANS. Sneakers (tennis
shoes)
Xe. "le break" ANS. Station wagon
10. (30 PTS.) The worst crime of which the Greeks could conceive was the murder of kin. this sin marked, most notably, the House of Atreus. Identify these murdered or murderous members of the House of Atreus, 10 pts. each.
a. The ancestor of the House of Atreus, Tantalus began the families troubles by feeding his own son to the Gods. Name the son.

ANS. Pelops
b. Atreus, eventual ruler of Mycanae, learned his brother had cuckolded him, so he served his brother's sons to him at a banquet. Name his brother.

ANS . Thyestes
c. Despite the atonement he paid for doing the deed, this man cleansed the House of Atreus by murdering his mother, Clytemnestra. Name him.

ANS. Orestes
11. (30 PTS.) Identify this U.S. city, 30-20-10. a. Founded in 1795, it was named after a surveyor with the Connecticut Land Company.
b. Located at the mouth of the Cuyahoga River on Lake Erie, it became a major shipping center for ore, lumber, copper, and coal when the Soo Locks opened Lake Superior in 1855.
c. It came into major prominence earlier, in 1825, with the opening of the Erie Canal turned it into Ohio's major business and manufacturing center.

ANS. Cleveland
12. (30 PTS.) Now it's time for everyone's favorite type of Mathematics -- Vectors! Given the vector $A=$ $2 i+3 j-4 k$ and $B=i+j+k$ where $i, j$, and $k$ are unit vectors along the $X, y$, and $z$ axes, answer the following questions, for 10 pts. each.
a. What is $A+B$ ? ANS. $3 i+4 j-3 k$
b. What is the scalar product, or dot product of $A$ and

B?
ANS . 1
Vc. What is the vector cross product of $A$ with itself?
ANS. 0
13. ( 30 PTS.) Identify this historical figure based on clues, 30-20-10.
a. La Philosophie dans le Boudoir is attributed to him, but was published posthumously in 1795.
b. His most famous work is Justine, or the Misfortunes of Virtue.
c. His name has come to be associated with sexual deviancy and cruelty.

ANS. Marquis de Sade
14. (30 PTS.) Since March is Women's History Month, it would be appropriate to test your knowledge of outstanding women figures from America's past. Identify these three for 10 pts. each.
a. A successful Maine businesswoman, she was elected to the U.S. House of Representatives in 1940 and the Senate in '54, ' 60 and ' 66 , becoming the first woman elected to both houses of Congress.

ANS. Margaret Chase Smith
b. Founder of the Woman's State Temperance Society of New York in 1852, she later served as president of the American Women's Suffrace Association and published the women's suffrage newspaper, The Revolution.

ANS. Susan B. Anthony
c. A participant in the Transcendental Movement and assistant in Bronson Alcott's Temple School, this noted - educator opened the first kindergarten in America in 1860 .

ANS. Elizabeth Peabody
15. (25 PTS.) For 5 pts. each, 25 for all four, identify the principal character who committed suicide in each of the following works.
$X a$. The Sound and the Fury
ANS. Quentin Compson
b. Death of a Salesman

ANS. Willy Loman
łc. Nicholas Nicklesby
$X d$. The Brothers Karamazov
ANS. Ralph Nicklesby
ANS. Smerdyakov
16. (25 PTS.) The first Academy Award for Best Foreign Film was awarded to Federico Fellini's La Strada in 1956. Given a foreign film awarded an Oscar, identify its director, 5 pts. each correct.
a. Through a Glass Darkly

Bergman
b. Day for Night ANS Francois Truffaut
Xc. Dersu Uzala

ANS. Kurosawa Akira d. The Discreet Charm of the Bourgeoisie ANS. Luis Bunuel
e. A Man and a Woman

ANS. Claude
Lelouch
17. (30 PTS.) Consider an electrical circuit in which four resistors having resistances of $1,2,3$, and 6 ohms are linked in parallel.
a. First, for 5 pts. what is the single equivalent resistance in this circuit.

ANS. 2 ohms
b. A 10 volt source is linked in parallel with the circuit. For 10 pts., taking the equivalent resistance as a single circuit element, what is the value of the current leaving the source?

ANS. 5 amperes
c. Finally, what is the total power dissipated by the circuit, for 15 pts.

ANS. 50 watts
18. (30 PTS.) George Washington's most famous Secretary of State was Thomas Jefferson, but two other men held the post under Washington. For 10 pts. each, name them.

ANS. Edmund Randolph and Timothy Pickering One of Washington's Secretaries of State, Timothy Pickering, also held the post under John Adams. For 10 pts. name Adams' other Secretary of State.

ANS. John Marshall
19. (30 PTS.) The operetta is an often overlooked musical form, but there are some notable operettas. For 10 pts. each, name the composers of these.
a. Babes in Toyland
ANS. Victor Herbert
b. The Gypsy Baron
ANS. Johann Strauss,
the Younger
c. The Student Prince

ANS. Sigmund

## Romberg

20. (25 PTS.) Identify the American author of these works, 5 pts. each, 25 for all four correct.
a. Cup of Gold

ANS. John Steinbeck
b. The Golden Bowl

ANS. Henry James
c. Gold
d. The Golden Apples

Welty
ANS. Eugene O'Neill ANS. Eudora
21. (25 PTS.) In trying to explain how the four fundamental forces work, physicists have theorized and proven the existence of particles at work in these four forces. For 5 pts. each, 25 for all four, identify these.
a. The strong nuclear force is what holds quarks together. They do so by exchanging these particles. ANS. Gluons
b. In the electromagnetic force, which holds electrons
in orbit, these particles are exchanged.
ANS. Photons
c. The weak nuclear force occurs when quarks,
electrons, and neutrinos exchange these particles.
ANS. Weakons or Intermediate vector bosons
d. This is the hypothetical particle of gravity.

ANS. Graviton
22. ( 30 PTS.) For 15 pts. each, identify these two laws dealing with the nature of blackbodies.
a. The energy flux emitted by a body is such that a blackbody does not reflect light, meaning that its energy flux depends only on temperature.

ANS. Stefan-Boltzmann Law (accept just
Stefan's Law)
b. This law essentially explains the relationship between the temperature of a blackbody and the wavelength at which it emits the greatest intensity of radiation.

ANS. Wien's Law
23. (30 PTS.) You've probably heard of Zambia, Zanzibar, and Zaire, but how about these other place names which begin with the letter "Z"? For 10 pts. each identify these "Z" places.
a. Sounding somewhat like a spoonerism, this Egyptian town is located on the Nile and is an important cotton producer.

ANS. Zagazig
b. This Yugoslav city is the capital of Croatia.

ANS. Zagreb
c. This Netherlands province covers parts of the

Scheldt estuary.
ANS. Zeeland

