Toss-ups UT2

1. Born in 1712, he came from a poor background and had to live by odd jobs until the age of 40, when his Discourses on the Origin of Inequalities Among Men was published, in which his deep distrust of society became apparent. His later publications include Considerations on Poland, Nouvelle Heloise, and Emile. For ten points, name this man, usually associated with France and author of The Social Contract.
Ans: Rousseau

2. This opera, not considered one of the composer's best, was based on a melodrama by David Belasco that he saw performed when he visited the U.S. in 1905. The characters include Minnie, Billy Jackrabbit, and José Castro, and it is set in California in 1850. For ten points, name this Puccini opera.
Ans: The Girl of the Golden West

3. Michaelis introduced the dye "Janus green B" in 1900, which specifically stained these organelles that had been identified by Kollicker in the 1800'sas independent structures in the cell. Earlier stains specifically for these granules had been discovered by Altmann, who suggested that they were autonomous organisms within the cytoplasm. More recently, Margulis has suggested that these organelles evolved from prodaryotic cell. In fact, they do replicate themselves and contain their own DNA. For ten points give the Greek for "thread granule" and you have named the "powerhouse" of the cell.
Ans: Mitochondrion (accept mitochondria)

4. He served as Governor of New York from 1839 -42 and in the U.S. Senate from 1849-55. Active in the formation of the Republican Party, he served form 1861-69 as Secretary of State. For ten points, name this man who oversaw the purchase of Alaska.
Ans: William Seward

5. Professor at the Royal Institute in London from 1802-1813, this English scientist classified chemical affinity as an electric phenomenon. He theorized that acids characteristically contain hydrogen and proved that chlorine was an element. For ten points, name this chemist, discoverer of six elements, including sodium, potassium, and magnesium.
Ans: Sir Humphry Davy

6. This singer/actress was mainly known for 3 characterizations, one of which, Baby Snooks, won her radio fame. She performed in nine Ziegfield Follies and introduced such songs as "Second Hand Rose." For ten points, name this commedienne, subject of the 1964 musical "Funny Girl."
Ans: Fanny Brice

7. In 1925, Frank Earl Robinson sent telegrams to newspaper buddies in Nashville and Chattanooga, telling about a challenge in Rhea County, Tennessee, to a state law many believed to infringe upon freedom of thought. He thought that the challenge would be a good change of pace for his town, so he convinced the football coach of Rhea Central High School to teach the outlawed theory of evolution when he filled in as a biology teacher. The result was a trial that drew the attention of the likes of H.L. Mencken, with William Jennings Bryan for the prosecution and Clarence Darrow for the defence. For ten points, name this event.
Ans. Scopes trial (accept monky trial)

8. 33 atolls in three principal groups, scattered within an area of about 2m,000 square miles in the mid-Pacific Ocean, its nearest neighbors are Nauru to the west and Tuvalu and Tokelau to the South., For 10 pts. name this island group with such individual names as Banaba Island, and which was formerly called the Gilbert Islands.
Ans: Kiribati

9. This German physicist formulated a theory of electrolysis. He restated the Second Law of Thermodynamics to say that heat cannot travel from a cold body to a hot one. For ten points, name this physicist, who introduced the concept of entropy and developed the Kinetic-Molecular Theory of Gases.
Ans. Rudolf Clausius

10. She changed her named during the 1989 tennis season in order to honor her mother, adding Viccario to her name. Her brothers Javier and Emilio are also successful, but have yet to win a grand slam. For 10 pts. name this winner of the 1989 French Open Women's Single title.
ANS. Aranxta Sanchez-Viccario

11. Many philosophers of old were also accomplished scientists. Such is the case with this man who, in 1755, proposed that many nebulae are actually collections of millions of stars and that the solar system was formed from a cloud of dust around the sun. He is bette known for his creation of a "Copernican revolution in philosophy." For ten points, name this German philosopher, known for his three Critiques.
Ans. Immanuel Kant

12. This city, whose name means "sheltered harbor" has attracted visitors since 1794. The home of Fort Shafter, Schofield Barracks, and Hickam Air Force Base, the defense industry is the second mainstay of this city's economy. Tourism is by far its major industry, because of its hospitable climate, majestic mountains, exotic locale, and the beaches of Waikiki. For ten points, what is this city, home of the naval base at Pearl Harbor?
Ans: Honolulu

13. Also called Station Plays, these were popular throughout Christian Europe in the Middle Ages. They were essentially medieval passion plays, climaxing with a scene of Christ on the Cross. For ten points, name this type of Christian drama.
Ans: Mystery Play

14. Based on newspaper accounts of an international espionage trial, this play first opened on Broadway in 1988, starring John Lithgow as Rene Gallimard. It won the Tony for best play that year, quite a feat for its 31 year-old author, David Hwang. For ten points, name this play, the classic story of espionage and mistaken sexual identity.
Ans. M.Butterfly

15. A party of drunken British sailors killed a villager, Lein Weihsi, at Kowloon on July 7, 1839. Chinese and British authorities clashed over the incident, diplomacy failed, and war broke out. For 10 pts., identify this war which lasted from 1839-42.
ANS. 1st Opium War

16. Principal founder of the Viennese classical school and first great master of the symphony, as musical director for the Esterhazy family (1766-1790), he composed 80 symphonies, 43 string quartets, 23 operas, and numerous sonatas, masses, overtures, and oratorios. Among his most admired works are the 12 London Symphonies and two oratorios composed late in life, The Creation and The Seasons. For ten points, name this man.

Ans: Franz Joseph <u>Haydn</u>

17. Although he was the most celebrated of the dramatists of Greek "New Comedy" and even Julius Caesar admitted that his favorite dramatist Terence only had the skill of this man "cut down by half," until a few years ago only an incomplete version of his play <u>The Women of Samos</u> was available to scholars. Until 1959, that is, when a complete version of his comedy <u>The Dyskolos</u>, was discovered in an archaelogical dig. For 10 points, name this master dramatist.
Ans: <u>Menander</u>

18. He was "banned" from Finland in 1978 for his failure to wear pants, the questionable parentage of his three nephews, and his apparently "sinful" relationship with Daisy. For 10 pts. name this Disney cartoon character.
ANS. <u>Donald Duck</u>

19. They are believed to be rotating neutron stars that emit radio waves in a narrow beam. For 10 pts. name these celestial objects which "throb" at precise intervals ranging from 1.56 milliseconds to 3.75 second.
ANS. <u>Pulsars</u>

20. Although she is more associated with another region and field of endeavor, she graduated from the University of Wisconsin in 1929, and her first jobs were as a radio writer and newspaper society editor, then as a photographer for the WPA. Her real fame came later, as her first publication in 1931 was quickly followed by many more, mostly in the <u>Southern Review</u>. For ten points, name this author of <u>Petrified Man</u> and <u>The Optimist's Daughter</u>.
Ans: Eudora <u>Welty</u>

21. "Talk, Talk, Talk," "Mirror Moves," "Midnight to Midnight," "All This and Heaven Too," and "Book of Days" are the some of the albums by British band whose name sounds like another name for a mink on acid. For ten points, name this band, whose song "Pretty in Pink" was the theme song of the John Hughes movie of the same name.
Ans: <u>Psychedelic Furs</u>

Bonuses

(25 points)
This powerful, if somewhat exaggerated, attack on the Standard Oil monopoly attracted wide attention. In addition to denouncing Standard's business practices — Lloyd said that the trust had done everything to the Pennsylvania legislature except refine it — he denounced laissez-faire economics and the application of Darwinian ideas about survival of the fittest to social affairs. For 25 points, name this book, written in 1894 by Henry Demarest Lloyd.
Ans: <u>Wealth Against Commonwealth</u>

(30 points)
Given the characters in a Faulkner work, name the work, 10 points each.
1.Thomas Sutpin, Quentin Compson   Ans. <u>Absalom, Absalom</u>
2.Lena Grove, Joanna Burden   Ans. <u>Light in August</u>
3.Gowan Stevens, Temple Drake, Nancy Manningoe Ans. <u>Requim for a Nun</u>

(25 points)
This bonus requires you to use the SI prefixes to come up with some non-standard SI units, 5 points each. For example, if you were given "10^{-2} pedes," you would reply "1 centipede." Another example, given "10^{-2} nal, you would reply "1 centinal (sentinal).

1. 10^{-6} phones   Ans:1 <u>microphone</u>
2. 10^{1} cards   Ans:1 <u>dekacards</u>
3. 10^{9} los   Ans:1 <u>gigalo</u>
4. 10^{-3} taries   Ans:1 <u>military</u>
5. 10^{12} bulls   Ans:1 <u>terabull</u>

(30 points) *25*
Identify these rulers in Eastern Europe, for 5 points each.
1. East Germany's caretaker prime minister Ans: Hans <u>Modrow</u>
2. Bulgaria's head of state   Ans: Petar <u>Mladenov</u>
3. President of Czechoslovakia   Ans: Vaclov <u>Havel</u>
4. Prime Minister of Poland Ans: Tadeusz <u>Mazowiecki</u>
5. President of Romania   Ans. Ion <u>Iliescu</u>

(30 points)
The cental dogma of genetics is that DNA is transcribed directly into RNA which is then translated linearly into protein. This standard model has proved to be oversimplified, especially for eukaryotic cells. First, for

Ans: <u>hnRNA</u> (heterogeneous RNA)

Parts of the hnRNA are excised and the remaining pieces spliced back together to form mRNA. For 10 more points, what are the intervening sequences that must be removed called?

Ans: <u>Introns</u>

For a final ten points, what do you call the remaining pieces of the hnRNA after the introns have been removed?

Ans: <u>Exons</u>

(30 points)

The NCAA Men's Division I Basketball Tounament has over a 50-year history, but the Division I Women's Championships only began in 1982. Six schools have wom championships, with three two-time winners and three others with only one title. First, for 5 points each, name the three schools that have captured two women's championships.

Ans: <u>Tennessee</u>, <u>Louisiana Tech</u>, and <u>Southern California</u> (USC)

Now, for an additional 5 points each, name the schools that have won one title each.

Ans: <u>Old Dominion</u>, <u>Texas</u>, and <u>Stanford</u>

(30 points)

The confusion created by isomers must be cleared up, and you will earn points for your ability to do so. All compounds with the same molecular formula are called isomers; all of those with the same atomic connectivities are given a specific term. For 10 points, what is this term?

Ans: <u>Stereoisomers</u>

There are two kinds of stereoisomers; one kind occurs when two molecules are mirror images of each other. For 10 points, name it.

Ans: <u>Enantionmers</u>

The other kind of stereoisomer occurs when the molecules are not mirror images. For a final 10 points, name it.

Ans: <u>Diastereomers</u>

(30 points)

30-20-10-5 Identify this year.

30-The Carbonari staged a successful coup in July against Ferdinand I of Naples.

20-"Ivanhoe" and "Prometheus Unbound" are published

10-George IV ascends to the British throne.

5-Missouri Compromise is passed.

Ans <u>1820</u>

2

(25 points)
Given a famous American painting and the year it was painted, name the artist, 5 points each.
1. George Washington (the unfinished version, 1796) Ans: Gilbert Stuart
2. American Gothic (1930)   Ans: Grant Wood
3. The Gulf Stream (1886)   Ans: Winslow Homer
4. The Gross Clinic (1875)   Ans: Thomas Eakins
5. Exhuming the Mastodon (1801)   Ans: Charles Wilson Pike

(25 points)
Everyone can name the justices of the Supreme Court. To make it more interesting, given a justice, name the president who appointed him, 5 points each.
1. William J. Brennan, Jr.   Ans: Eisenhower
2. Byron R. White   Ans: Kennedy
3. Harry A. Blackman   Ans: Nixon
4. John Paul Stevens   Ans: Ford
5. Thurgood Marshal   Ans: Johnson

(25 points)
Given the number of the Super Bowl and the winner, name the loser, 5 points each.
1. Super Bowl V, Baltimore wins   Ans: Dallas Cowboys
2. Super Bowl IX, Pittsburg wins   Ans: Minnesota Vikings
3. Super Bowl VII, Miami wins   Ans: Washington Redskins
4. Super Bowl XIV, Pittsburg wins   Ans: Los Angeles Rams
5. Super Bowl XVIII, L.A. Raiders win   Ans: Washington Redskins

(30 points)
Name each of these Bablyonian Gods for 10 points each.
1. God of the hurrican and deluge, was also the source of royal power and dealt out good and evil to men.   Ans: Enlil
2. Fertility god and the principal deity of Babylon. He established lordship over all the other gods by killing the malevolent and chotic Tiamat and by creating the world out of Tiamat's body. Ans: Marduk
3. One of the most popular Babylonian deities, was the goddess of sexuality, a potent force among beasts and men. She sanctified temple prostitution, and, lustful herself, she had numerous lovers, most of whom had dreadful fates. Ans: Ishtar

(25 points)
For 5 points each identify these members of the National Inventers' Hall of Fame from a description.

3

1. This Frenchman was inducted for a process of brewing beer, which was both unsuccessful and not the source of his fame.
Ans. Louis Pasteur
2. This American was inducted for inventing an incandescent electric lamp, but is better known for his work on the chemistry of surfaces, which won him the 1932 Nobel Prize.
Ans: Irving Langmuir
3. This German invented a four-stroke, natural gas-powered engine.
Ans: Nikolaus Otto
4. This Canadian-American invented a method of extracting bromine and chlorine from natural salt deposits and patented over 90 other inventions.
Ans: Herbert Henry Dow
5. This German-American invented a machine for producing printing bars, called the linotype.
Ans: Ottmar Mergan Thaler

(30 points)
Hulk Hogan and the Ultimate Warrior have gotten into another oneof their arguments about their favorite subject: theoretical mechanics. They just can't agree on moments of inertia. Try to help them resolve their differences, 10 points each.
1. Warrior wants to demonstrate the moment of inertia of a thin rod about an axis fixed at one end, so he picks up Bobby "the Brain" Heenan by his feet and swings him around. If Bobby has a mass, m, and a height, h, what would his moment of inertia be?
Ans: $1/3\ mh^2$
2. Hulk wants to demonstrate the moment of a thin disk about an axis through its center, so he flattens Bobby into a disk and rolls him along the floor. If Bobby's radius is R, what is his moment of inertia?
Ans: $1/2\ mR^2$
3. There's one thing that Hulk and Warrior both agree on, however, and that's the moment of inertia of a solid sphere about its diameter, so they roll poor Bobby into a ball and roll him across the floor. If hsi radius is, again, R, what would his moment of inertia be?
Ans: $2/5\ mR^2$

(30 points)
Name the author after a list of works, 30-20-10.
30-Two Cheers for Democracy and Pharos and Pharillon
20- Abinger Harvest and England's Pleasant Land
10-A Passage to India and Where Angels Fear to Tread

Ans: E.M.Forster

(30 points)
Given this economic information, calculate the variances associated with this information, 15 points each.
   (AQ) Actual quantity of inputs = 6500 lbs.
   (AP) Actual price per pound =$3.80
   (SP) Standard price per pound = $4.00
   (SQ) Standard quantity allowed for output = 6000 lbs.
1. Calculate the price variance. (30 seconds)
Ans: AQ(AP-SP) = 6500(|3.80-4.00|) = $1300
2. Calculate the quantity variance (30 seconds)
Ans: SP(AQ-SQ) = $4(6500 - 6000) = $2000

(30 points)
Given the first few lines of a Shelley poem, name it, 10 points each.
1. "Hail to thee, blithe Spirit!/Bird thou never wert, That from Heaven, or near it,/Pourest thy full heart/ In profuse strains of unpremeditated art."
Ans: "To a Skylark"
2. "I met a traveller from an antique land/Who said: Two vast and trunkless legs of stone/Stand in the desert . . ."
Ans: "Ozymandias "
3. "O wild West Wind, thou breath of Autumn's being,/ Thou, from whose unseen presence the leaves dead/ are driven . . ."
Ans: "Ode to the West Wind"

(25 points)
He was born in 1931 in Gifu Prefecture, into a very talented family. His cousin is one of the leading abstract calligraphers of Japan, and she did the set design for one of his films Double Suicide. His idols are Yasujiro Ozu and Kenji Mizoguchi, but his elaborate themes of violence, sex, and masochism are all his own. His films include In the Realm of the Senses, The Ballad of Orin, and Pale Flower. For twenty five points, name this Japanese director.
Ans. Masahiro Shinoda

(30 points)
1. Some people only have one or two quotations in the Penguin Dictionary of Quotations, but those few quotes are more than enough. If you can name the person quoted from the quotation, you'll get 10 points. If you need a clue about the person, you'll receive 5 points for the correct answer. You may guess after each clue.

5

1. a. "I see - she's the original good time that was had by all."
   b. She won an Oscar for her role in Dangerous
   Ans: Bette Davis
2. a. "You can't imagine the extra work I had when I was a god."
   b. He reigned from 1926-1989.
   Ans: Hirohito (accept Showa)
3. a. "It's just like when you have some coffee that's too black, which means it's too strong. What do you do? You integrate it with cream, you make it weak ... It used to wake you up, now it puts you to sleep."
   b. He was assasinated in 1965.
   Ans: Malcolm X

(25 points)
Given the name of an opera, give the composer, 5 points each.
1. Norma   Ans: Bellini
2. Salome   Ans: Richard Straus
3. Boris Godounoff Ans:Modest Moussorgsky
4. Aïda   Ans: Giuseppe Verdi
5. Die Fledermaus Ans. Johann Straus

6