## 1998 NLIT

Tossups by Penn State (of all people)

1) "Lawful" means, "Compatible with the will of a judge having jurisdiction." "Belladonna" is, "in Italian a beautiful lady; in English a deadly poison. A striking example of the essential identity of the two tongues." The book, which appeared in parts in a weekly paper from 1881 to 1906, is a study in cynicism, addressed to "enlightened souls who prefer sense to sentiment, wit to humor and clean English to slang." FTP, name this book which defines others of its kind as "Malevolent literary devices for cramping the growth of a language," written by Ambrose Bierce.
A. The -Devil's Dictionary-
2) Her name means "the most noble of women" and after the death of her husband in the mid$16^{\text {th }}$ century BC, she replaced him as Pharaoh, becoming the first woman to rule over Egypt. FTP, name this queen who oversaw the building of the Temple of Karnak, and whose reign was usurped by her son, Tutmosis III.
A: -Hetsapshut-
3) The composer himself described the piece as "a kaleidoscope of fairy tale images and designs of Islamic character." The first movement, entitled "The Sea and Sinbad's Ship" sets the stage with the powerful motif that is repeated in the thunderous final movement, 'The Festival at Baghdad." FTP, name this 1888 symphonic suite by Rimsky-Korsakov, based on the famous narrator of the 1,001 Arabian Nights.
A: -Sheherazade-
4) A set $S$ is this if there exists either a surjective mapping from the natural numbers to $S$ or an injective mapping from S to the natural numbers. The power set P of any infinite set is not, nor are the real numbers, however the integers and rational numbers are. FTP, give this term which describes any finite set and any infinite set whose elements can be discretely numbered.
A. -countable-, or -denumerable-
5) He began to receive attention as a youth player from his home in Middletown, Pennsylvania. His dynamic scoring prowess led him to the University of Virginia, where he made the all-ACC team by his sophomore year, as well as being a finalist for the National Player of the Year Award. In 1997 he won that too, even if he couldn't lead Virginia all the way to another NCAA soccer title. His old coach, Bruce Arena, quickly selected him as a Project 40 player after he signed with MLS last December. FTP, identify \#10 when he played for the Cavaliers and \#14 as he presently does for DC United, the 1998 MLS Rookie of the Year.
A. Ben -Olsen-
6) It begins in eucaryotes when the 50 S ribosomal subunit binds to a MRNA molecule. Soon, promoters in the base pairing allow for the 30S ribosomal section to combine. Specific sequences are matched with amino acids brought to the ribosome by TRNA, molecules, and then the growing molecule is added by the action of GTP and peptidyl transferase. Using the wobble concept, the MRNA strand is elongated until a stop codon is reached, at which point the
process halts. FTP, these events describe what biologic process, which in procaryotes occurs in the nucleus along with transcription, even if the genetic code is the only language involved?
A. -Translation-
7) Its existence was rendered unnecessary when general relativity introduced a term into Newton's theory of gravity dependent on the distance to the fourth, which when added to the standard one over r-squared potential explained the 43 arcsecond-per-century perihelion shift of Mercury. Its life therefore parallels Pluto's - searched for because of a problem in Newtonian gravity that eventually was explained away. The difference is, of course, that this planet doesn't exist. FTP, name this fictitious planet inside Mercury's orbit, named after the Roman god of the forge.
A: -Vulcan -
8) This nation has five airports, nine provinces, and a surprisingly low $1.46 \%$ population growth rate. It's main ethnic groups include Fang, Bandzabi, and Pygmies. Led by longtime leader El Hadj Omar Bongo, he was reelected in 1993 in his nation's first multiparty elections. FTP, name this stable African country, a former French colony, who's three largest cities are Franceville, Port-Gentil, and it capital of Libreville.
A: -Gabon-
9) He got into a public relations fiasco when he gave the finger to a large group of protestors from his train car in Calgary. He earned his law degree from the University of Montreal in 1943 and became a law professor there before being elected to parliament in 1965. His greatest achievement may be the repatriation of the Canadian constitution in 1982. For 10 points, name this flamboyant prime minister of Canada from 1968-1979 and 1980-1983.
A Pierre Elliot -Trudeau-
10) He is known as a great poet, though he prefers poverty to accepting patronage. As captain of the Cadets of Gascoyne he is one of the best swordsman in France, though his skill is used most often against those who offend him. He also has a brilliant wit, though he uses it to help his rival win the girl he loves. For ten points, name this Edmond Rostand title character who combines all three in extemporizing a ballad as he duels a man who has dared to say, "Your nose is rather large."
A. -Cyrano de Bergerac-
11) To avoid excessive disk accesses in linked allocation file systems, the first few blocks of the disk are used to store a reference containing an entry for each disk block, indexed by block number. The starting block of a file is indicated, and each entry shows the next block where the file is stored. FTP, name this table, abbreviated FAT.
A. -File Allocation- Table (prompt on FAT on early buzz)
12) All of the characters volunteered for the war and all survive the madness until the last chapter. Berger is killed by English artillery while trying to rescue a messenger dog. Katczinsky falls to an American airman. Muller is shot by a French infantryman. When the narrator, Paul Baumer, is killed in October of 1918, it is on a day so uneventful that the army report confined itself to a single sentence, the book's title. FTP, name this book by Erich Maria Remarque.

## A. -All Quiet on the Western Front- or -im Western Nichts Neues-

13) Discovered in 190 A.D. in China, it was not until 1710 that this invention was discover in Europe. Johann Friedrich Wilhelm Bottger perfected a method in Meissen, Germany, in which the mixture of kaolin and pentuntse created the hard-paste necessary for this material. It wasn't until the mid- $18^{\text {th }}$ Century that England and France found a way to produce this material, developing a soft-paste combination of white clay and glass or bone ash. FTP, name this highfired clay material, made into dinnerware, sculptures, and false teeth.
A: -porcelain-
14) Named for the woolen robes they wore, practicioners wish to personally experience Tauhid, a total unity with God. They do not distance themselves from the Shariat, but despite this view, some countries, notably Saudi Arabia, still condemn, FTP, what mystical Islamic sect?
A. -sufism-, or -sufis-
15) By the end of this battle from Jun 18-20, 1944, the Japanese fleet had lost almost all of its remaining carrier force. However, unlike the 750 or more planes shot down in this Marianas Turkey Shoot, it was American submarines that sank the Taiho and the Shokaku, leading to the inevitable demise of the Japanese fleet 5 months later during the battle of Leyte Gulf. FTP, identify this massive battle which also featured the impetus for kamikaze operations when a Japanese Admiral piloted a bomber into the USS Princeton, named for the body of water north of the Caroline Islands and east of the Phillipines.

## A: Battle of -Phillipine Sea-

16) They Most likely make up only about $1 \%$ of the Universe's total mass, though supemovae and the like emit most of their energy by creating them. Recently, in Japan, it was shown that the Sun emits less of one flavor than another, which may solve a long standing problem in astrophysics, and finally places a lower limit on their mass. FTP, name these particles which interact with virtually nothing, and whose name comes from Italian meaning "little neutral one."

## A: Neutrinos

17) After he was given consular power in Spain, he scored major victories at Saguntum, Baecula, and Illipa in 217 BC. Fifteen years later, he would team up with the cavalry of Massinissa to fight his greatest battle. FTP, name this Roman commander, the hero of the $2^{\text {nd }}$ Punic War who defeated Hannibal at Zama in 2 O 2 BC.
A: -Scipio Africanus- (prompt on just "Scipio")
18) He was born in 1759 and wrote prolifically despite only living to thirty-seven. Many of his poems are actually lyrics, set to the tunes of drinking songs and folk tunes like "Robin Adair' and "Gordon's Strathspey." The poems display a wide variety in style and language. "Man was Made to Mourn: a Dirge" uses normal English such as "Man's inhumanity to man / Makes countless thousands mourn." Volumes of his poetry must often include a glossary, however, as most of his better-know works are in nearly unintelligible dialect. FTP, name the poet who wrote lines like "Scots wha hae wi'Wallace bled" and "Wee, sleakit, cow'rin, timorous beastie."

## A. Robert _Burns_

19) Born July 2, 1908 this lawyer won his first supreme court case in 1940 - Chambers v. Florida, to be followed by 39 others. With his mentor, Charles Houston, he had won his first civil rights case in 1935: Murray v. Pearson. Appointed to the United States Court of Appeals in 1961, his confirmation was held up for months by southern senators. For ten points, name this first african-american justice of the US Supreme Court.
A: Thurgood -Marshall-
20) Depicting the story from Matthew 17:24-27, in the center Christ instructs Peter to catch a fish. It uses recently discovered linear perspective and chiaroscuro, and the primary light source is a window in the Brancacci chapel in the Church of Santa Maria del Carmine in Florence, where this fresco resides. For ten points, name this masterwork by Masaccio, adjacent to the Expulsion of Adam and Eve.

## A: -The Tribute Money-

21) Born into a prominent New York family in 1862, she married a wealthy Bostonian at the age of 23. She published her first short story "Mrs. Manstey's View", in 1891, and others of her short stories include The Angel at the Grave, The Pelican, and The Muses' Tragedy. FTP, name this author, who is more well known for her novels, such as The House of Mirth, Ethan Frome, and The Age of Innocence.
A. Edith -Wharton-
22) This apocryphal story takes place over two fateful months in 587 B. C., in the small town of Bethulia, which is under attack by the Assyrians. The widow of Manasseh casts off her widow's sackcloth and attracts the attention of an Assyrian general, who invites her to eat with him. FTP, name this title character, who saves her town by beheading the general, Holofernos.
A. -Judith-

## Bonuses

1) Given some works, identify the poets for 10 points each, 5 if you need better-known works.

10 points - "Character of the Happy Warrior," "My Heart Leaps Up"
5 points - "London, 1802," "Line Composed a Few Miles Above Tintern Abbey"
Answer: William -Wordsworth-
10 points - "Stanzas written in Dejection, near Naples," "Autumn: A Dirge"
5 points - "To a Skylark," "Ode to the West Wind"
Answer: Percy Bysshe -Shelly-
10 points - "Ode on Melancholy," "On Seeing the Elgin Marbles"
5 points - "La Belle Dame Sans Merci," "On First Looking into Chapman's Homer'
Answer: John_Keats
2) Name the school of philosophy from famous followers:

5: Ralph Waldo Emerson, Henry David Thoreau
Answer: - Transcendentalism-

10: Seneca, Marcus Aurelias
Answer: -Stoicism-
15: Simplicius, Plotinus, Porphyry, Numeniusans.
Answer: -Neoplatonism
3) Give the Biblical name, $30,20,10,5$
30. In Luke, 16:19, he is an outcast, covered in sores. After his death, he is comforted in the arms of Abraham, while a rich man looks on in agony from Hades.
20. In John, chapter 11, his sisters Martha and Mary Magdelene summon Jesus to his home in Bethany when he falls ill.
10. In that same chapter, Jesus arrives to find he has already died, and has lain in the tomb for four days.
5. Jesus then resurrects him, performing one of the most famous miracles in the New

Testament.
Answer: -Lazarus-
4) Yeah, right. Another fantastic bonus about things on TV, or at least that's what they want you to think ... Identify these things from the animated show Daria FTPE:
First, the name of the show that she and Jane always watch. Among some of these best episodes are the Psychic Centerfolds ("what happens when Miss September can see October?") and When Aliens Can't Commit.

Answer: -Sick Sad World-
Second, FFPE, name the other two sidekicks in the Fashion Club, who are either backing up the President Sandy, or the Vice-President Quinn at any given time.
Answer: _Tiffany_and_Stacy_
For a final 10 points, name the history teacher, a survivor of military school and Kevin and Brittany's collective intelligence in his class.
Answer: Mr. Anthony -DeMartino-
5) Quarks originally had much more fanciful names than they currently hold. See how much you know about that which constitutes all matter by answering these questions.

First, for five points each, name the current standard names for the four quarks other than up and down.

Answer: $\quad$-Charm(ed) -, -Strange -, -Top -, and -Bottom
Next, for an additional ten points, name either of the two more fanciful names given to the top and bottom quark originally, beginning with the same letters.

Answer: -Truth -, or -Beauty
6) Carbon is just a cool element, especially in organic compounds. Identify the number of carbon atoms in these compounds FFPE
a) methylcyclobutane
b) napthalene
c) DDT
d) formaldehyde
e) glucose
f) nitrous oxide

7) For five points a piece, give me the six largest cities in the United States that have the word "Fort" in them, three of which are in Florida.
Answers: Fort Worth , Fort Lauderdale ,Fort Wayne, Fort Myers, Fort Pierce,

## Fort Collins

8) Name the Musical Group 30-20-10

30: It consisted of Trevor Horn and Geoff Downes and existed from 1979-1981.
20: They put out two albums, The Age of Plastic and Adventures in Modern Recording.
10: They are most famous for their song Video Killed the Radio Star.
Answer: The -Buggles-
9) Do you remember thermodynamics? Given the definition, name the thermodynamic quantity FTPE.

This is the energy of a system plus the pressure times the volume.
ANSWER: -Enthalpy- prompt on H
This is the enthalpy minus the entropy times the temperature.
ANSWER: -Gibbs Free Energy- prompt on G
This is the energy of the system minus the entropy times the temperature.
ANSWER: -Helmholtz Free Energy- prompt on A
10) Given a group of people, name their rather fitting patron saint for ten points each.
a. Fathers
b. Ecologists
c. Postal workers

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Answer: -Joseph-
    Answer: -Francis - of Assisi
    Answer: _Gabriel_
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11) Name the composers of these musical works named for places; 5 points each with a 5 point bonus for all correct.
a. Symphony \#7, Leningrad
b. The "Scoffish" Symphony, \#3
c. Symphony \#38 in D Major, Prague
d A Concert with America
e. The Pines of Rome

Answer: Dmitri -Shostakovich-
Answer: Felix -Mendelsohn-
Answer: W. A. -Mozart -
Answer: Aaron -Copland
Answer: Ottorino -Respighi
12) Often times, major events are scheduled to occur in one locale but have to be moved for one reason or another. Fl5P, I'll give you the event and the locale it was held, you tell me where it was originally supposed to be held. Five points if you need another clue.
a) 15: 1976 Winter Olympics in Innsbruck, Austria

5: Citizens in this Rocky Mountain metropolis rejected a tax measure that would have funded the construction of Olympic venues. Innsbruck was later chosen in it's place.
Amswer: -Denver-
b) 15: 1986 World Cup of Soccer in Mexico

5: The international Soccer federation was concerned that this South American nation was too politically unstable for such a large-scale event, due to corruption, drugs, and the terrorist actions of the F.A.R.C.
Answer: -Colombia-
13) Name the Musical from Characters, 30, 20, 10 :

30: Mrs. Pearce, Zoltan Karpathy
20: Freddy Einsford-Hill, Colinel Hugh Pickering
10: Professor Henry Higgins
Answer: - My Fair Lady-
14) Answer these questions about epic poems for the stated number of points

5: It begins: "Sing to me of the man, Muse, the man of twists and turns driven time and again off course, once he had plundered the hallowed heights of Troy."
Answer: The -Odyssey-
10: After the death of his beloved friend Enkidu, this hero searches for eternal life, leading him to the homeland of Utnapishtim.

Answer: -Gilgamesh-
15: This avatar is encouraged to wage war in the Mahabarata, in the section known as the Baghavad-Gita.
Answer: - Arjuna-
15) How much do you know about high energy astrophysics? Try your hand at some of these questions from the newly emerging field.
First, for five points, name the physical phenomenon which accelerates particles to high energy. Hint: they also are the cause of sonic booms.
Answer: -Shocks - or shock waves
Next, for ten points, of $15,25,50$, or 75 , which of these is closest to the order of magnitude of the energy released in a supernova (in joules)?
Answer: $\quad-50-\left(-10^{\wedge} 46 \mathrm{~J}\right)$

Finally, for fifteen points, name-the first object in the sky which was identified with an X-ray source, located in the constellation Orion.
Answer: $\quad$-Crab Nebula -
16) Identify the following poets of the Great War given works, for the stated number of points.

5 points - "In Flanders Field"
Answer: John -McRae-
10 points - "Greater Love," "Dulce et Decorum Est"
Answer: Wilfred -Owen-

15 points - "Counter-Aftack," "Dreamers," "Letter to Robert Graves"
Answer: Siegfried -Sassoon-
17) How well do you know your grammatical terms? Given this list of noun cases: Nomnitive,

Genitive, Dative, and Accusative, for 5 points each, tell which one
A) Marks the direct object of the verb? -Accusative
B) Marks the subject of the verb? -Nomnitive
C) Marks the indirect object of the verb? -Dative-
D) Is the indicator of possession? -Genitive-

For an extra ten Points, what is the case of direct address?
Answer: -Vocative-
18) Answer these Questions about Asian and Indian literature FTPE:
A). This sages teachings, which advise followers on the organization of society, arecollected in his Analects.
Answer: -Confucius-
B) In Indian literature, these stories are addendums to the Vedas. Collectively their name literally means "the sifting around matters" alluding to the way they were taught and discussed.

Answer: -Upanishads -
C. The Chinese sage Lao Tzu wrote this collection of wisdom, which advises one to follow the path of Yin.
Answer: Tao teh Ching-
19) Think you know all there is to know about energy storage in plants?

F15PE, name the two types of starch from a brief description.
This consists of long, unbranched chains of D-glucose units connected in alpha one four linkages.
ANSWER: -amylose-
This has a highly branched structure with glycosidic linkages of alpha one four, but also branch points occurring every 24 to 30 residues that are alpha one six linkages.
ANSWER: -amylopectin-

## 20) 30-20-10 name him

30: He composed the music to the movie Postcards form the Edge.
20: He wrote the play'The Lady and the Tiger," and while serving in Korea was cartoonist for military newsletter Pacific Stars and Stripes.
10: Best known for writing _Where the Sidewalk Ends-, _A Light in the Attic-, and -The Missing Piece-.
Answer: Shel -Silverstein-
21) FTPE, answer the following questions about terms from electromagnetism.

First, this is the letter which commonly designates an electric field located inside matter.

## Answer: <br> D

Second, for five points each, give the two fundamental constants of electricity and magnetism, respectively. (in order)
Answer: -permitivity -of free space, ,-permeability _ of free space
Finally, what number do you obtain when you multiply the permitivity of free space and the permeability of free space together, and take its reciprocal?
Answer: the speed of light squared
22) Name the Shakespeare play from characters for the stated number of points:

5: Iago, Desdemona Answer: -Othello-
10: Hiro, Claudio, Bennedic, Beatrice Answer: -Much Ado About Nothing-
15: Cleon, Dionyza, Thaisa, Marina Answer: -Pericles_, Prince of Tyre

