

2004 Truman State
Brainal Leakage
Packet 6

Tossups

1. (piguy_bio) **The structure of this polymer consists of molecules of N-acetylglucosamine alternating with molecules of N-acetylmuramic acid, both of which are cross-linked by tetrapeptides.** (*) Gram-positive cells may have as many as 40 layers of this polymer, which is also known as murein. FTP, name this polymer that is the single most important component of the bacterial cell wall.

Answer: _peptidoglycan_ (accept murein for early answers)

2. (jgaunt_alit) **Deeply touched by war, this man wrote a number of books about the subject, the most notable of which was *For Esme - With Love and Squalor*.** (*) He introduced the character Seymour Glass in his story, "A Perfect Day for Bananafish." He recently produced his first new novel in 34 years in the form of another Glass story in 1999, titled *Hapworth 16, 1924*. FTP, name this author who received critical acclaim for another one of his other characters: Holden Caulfield.

Answer: Jerome David (J.D.) _Salinger_

3. (tallpaul_bhist) **This man was a prince of Gwynedd who was formally recognized as holding a more important and more fitting title by Henry III at the Treaty of Montgomery in 1267.** (*) He clashed with the subsequent English king, Edward I, which resulted in Edward's invasion of his territory in 1277, forcing him to pay homage. After a couple years of relative peace, this man clashed again with Edward in 1282 in a battle that resulted in his death. FTP, name this man, the last truly Welsh Prince of Wales.

Answer: _Llewelyn the Last_ (accept Llewelyn ap Gruffudd or Llewelyn ap Gruffydd) [note: Llewelyn is also spelled Llywelyn—be lenient on pronunciation]

4. (Maddog_blit) **The novel begins in Green Heys Fields, a beauty spot just outside the city of Manchester.** (*) The first portion of the book vividly portrays the horrors of English working class life, but towards the end it loses its edge as a social critique and instead becomes a melodramatic romance. Appearing the same year as the *Communist Manifesto*, FTP name this work by Elizabeth Gaskell that portrays England during the peak of the Chartist movement.

Answer: _Mary Barton_

5. (kyle_flit) **The protagonist in this novel is normally a peace-loving individual, but with the arrival of World War I, he must detach from those feelings** (*) and fight for his native Germany. After killing Gérard Duval in hand-to-hand combat, he realizes that he had just killed a husband and printer, realizing that the French opposition on the other side of the trenches was not an abstraction, but instead was a group of human beings like himself. FTP, identify this anti-war novel by journalist Erich Maria Remarque.

Answer: _All Quiet on the Western Front_

6. (tallpaul_geog) **These islands' governments were responsible to the Queen in Council until 2001, when responsibility for these islands, along with the Isle of Man, was passed to the Lord Chancellor's Department.** (*) This group of islands does not have representation in the UK Parliament, and Acts of Parliament are only extended to the Islands by Order in Council after local consultation. These islands were once a part of land in France owned by the Duke of Normandy, and a later invasion by the English led to their inclusion among the English territories. FTP, name this group of islands whose largest members are Jersey and Guernsey that lie off the northern coast of France in a namesake waterway.

Answer: _Channel_ Islands

7. (piguy_chem) **This chemical is commercially produced by first oxidizing ammonia to nitrogen dioxide and then dissolving the latter in water.** (*) The 14th most produced chemical in the United States in 1995 at 7.8 billion kilograms, the end uses of this chemical include ammonium nitrate and phosphate fertilizers, nitro explosives, plastics, dyes, and lacquers. FTP, name this acid with formula HNO₃.

Answer: _nitric acid_ (accept HNO₃ for early answers)

8. (Maddog_AmHist) **The first chairman of this commission was Joseph P. Kennedy, and its five members are chosen by the President and confirmed by the senate.** (*) Unlike most other governmental positions, this commission's membership terms are not a multiple of 2 in years, as they are sworn in every five. FTP, name the commission that administers many of the most influential New Deal reforms and was created by the Securities Exchange Act of 1934.
Answer: The _Securities and Exchange Commission_ (accept SEC)

9. (Maddog_econ) **One effect of the early acceptance of this curve's trade-off theory was that it made inflation more respectable. Inflation could now be seen not as the government's failure to control prices, but as the tradeoff we make for low unemployment. The curve was created in the 1950s** (*) when its namesake economist examined the annual wage growth rates and the unemployment rates in Great Britain from 1861 to 1957. FTP, identify this curve, named for the British economist who discovered that there was an inverse relationship between annual wage growth rates and the unemployment rate.
Answer: _Phillips_ Curve

10. (greg_ceurhist) **It is sometimes considered the first integrated American fighting force, and one of its officers, Oliver Law, was the first black American to lead white troops in combat.** (*) Members of the unit were of incredibly diverse backgrounds, with some being members of the Communist Party or even the IWW. They saw extensive combat in the defense of the Valencia-to-Madrid supply road but were withdrawn from combat in 1938. FTP, give the popular name for the American volunteer group that served on the republican side in the Spanish Civil War.
Answer: Abraham _Lincoln Brigade_

11. (brian_religion) **On his deathbed, the patriarch Jacob prophesied that this tribe would bear the line of Messiah.** (*) After the death of King Saul, David took the throne, but only held control over this tribe, which happened to be his own. FTP, name it, the name of the Southern Kingdom after the division following Solomon's death as well as the linguistic root of the term "Jew."
Answer: _Judah_

12. (laura_psych) **This psychologist studied groups of Native American children among the Dakota and Yurok tribes to formulate his theories on the influence of society on children's development.** (*) His first book, published in 1950 and titled *Childhood and Society*, has become a classic in the field of psychoanalysis, describing the eight psychosexual stages of development in the human life cycle. FTP, name this psychologist who is known for coining the phrase "identity crisis."
Answer: Erik _Erikson_ (accept Erik Homberger)

13. (kerrith_music) **The narrator and titular character is an old man when the story begins. He brags to the youngsters of the village** (*) about how he single-handedly defeated Napoleon on the Austria-Russia border, while Napoleon's wife falls in love with him. He travels to the court at Vienna, where he sees a "Viennese musical clock," depicted in the second movement of the suite. He meets the Emperor Franz, and returns to his home with his beloved country sweetheart. FTP, name this comic opera by Zoltan Kodaly (ko-DIE), which begins with a dramatic "musical sneeze."
Answer: _Hary Janos_ (YA-nos)

14. (greg_ceurhist) **The third son of the founder of the Aviz dynasty, he became interested in trade after seeing the wealth being generated in Ceuta after Portugal captured that city in 1415.** (*) He later became governor of the Order of Christ and used that position to fund expeditions that established Portuguese contact with the west coast of Africa and Brazil. FTP, name this royal patron of explorers who funded the voyages of Vasco de Gamma.
Answer: _Henry the Navigator_ (accept Infante Dom Henrique)

15. (Maddog_Art) **Located in the Cornaro Chapel of the Church of Santa Maria della Vittoria in Rome, this sculpture is cut from a single block of solid marble and is supported by a hidden pedestal and steel bars sunk into the chapel wall. The two** (*) figures in the image appear to float upward on the clouds, and the marble is skillfully molded to portray their billowing robes. The angel on the left holds an arrow ready to pierce the title figure, who swoons in oneness with God. FTP, identify this sculpture of a Spanish mystic, executed by Gianlorenzo Bernini.
Answer: _Saint Teresa of Avila in Ecstasy_ (accept clear knowledge equivalents)

16. (piguy_phys) **Recent measurements of this quantity may lead to a definition of the kilogram not dependent on the Platinum-Iridium artifact in France.** (*) It was originally determined experimentally in connection with blackbody radiation curves. To obtain agreement between the theoretical and experimental curves, the physicist for whom it is named assumed that the energy of an atomic oscillator could only have discrete values. FTP, identify this quantity whose symbol is h .

Answer: _Planck's_ constant

17. (kyle_misclit) **His death in 1938 marked another blow to Czechoslovakia, as the nation this playwright sought to keep free was slowly annexed by the Third Reich.** (*) Two of his lesser known plays, *The Insect Play*, or *The World We Live In*, and *Power and Glory*, warned of the evils of totalitarianism and attacked dictatorships. FTP, name this playwright, although a close friend of Czechoslovakia's first president, was best known for his play *R.U.R.*

Answer: Karel _Capek_

18. (brian_polisci) **He preached his first sermon at the age of four, and was licensed and ordained by the Washington Temple, a Pentecostal church in Washington, D.C., at the very tender age of 10 in 1964.** (*) After spending seven years as James "The Hardest Working Man in Show Business" Brown's road manager, he returned to New York, where he had attended college. At that time, he served as a minister, civil rights activist, and frequent political candidate. FTP, name this democratic presidential candidate, harshly criticized for his role in the Freddie's Fashion Mart arson and Tawana Brawley affair.

Answer: Al _Sharpton_

19. (jgaunt_math) **Start with zero and then write down multiples of three. Then add four to each number and divide by ten.** (*) In addition to planets, this numerical relationship also applies to moons that surround the planets. This law also led to the prediction of the existence of another planet between Mars and Jupiter now recognized as the asteroid belt. FTP, name this law which almost accurately predicts the distances of the first seven planets from our Sun.

Answer: _Bode's_ Law (accept Titius-Bode Law)

20. (Maddog_asianhist) **In 1956, he called for replacing liberal democracy with what he called "guided democracy," essentially giving himself more power. It took him three years to implement the system,** (*) and all the while unrest grew in the extreme islands of the nation, leading to attempted military coups on Sumatra and Sulawesi. With his system in place, the economy steadily declined yet he remained popular with the ordinary Indonesian. FTP, name this first president of Indonesia, eased out of power by Suharto in 1966.

Answer: _Sukarno_

21. (kyle_misclit) **Many of these stories were not written in Greek until the 2nd Century AD, when the Hellenic Roman Babrius paraphrased these oral traditions.** (*) Phaedrus also wrote these stories down a century earlier, but they have dated back as far back as the 6th Century BC. FTP, name this collection of stories that are attributed to a man who was supposedly a freed slave from Thrace and include "The Peacock and Juno" and "The Lion and the Mouse."

Answer: _Aesop's Fables_ (prompt on Aesop)

22. (Maddog_geology) **Years before he became president, Herbert C. Hoover and his wife prepared the first English edition of this text. Its author was originally a physician and his fascination** (*) with metals grew from their medicinal use. Filled with Renaissance woodcuts, it provides an illustrated record of ore mining, processing, and the mine history of 16th century Saxony. FTP, give the name of this classic geologic text by Georgius Agricola.

Answer: _De Re Metallica_ (accept *On the Subject of Metals*)

23. (Maddog_mischist) **Born in Nkroful in 1909, he attended Catholic schools in the Gold Coast and in his teens was an elementary school teacher. He traveled to the United States to study in his 20s, and became familiar with the works of Marx, Engels, and Lenin.** (*) An outspoken supporter of Pan-Africanism, he helped organize the fifth Pan-African Congress in Manchester, England. Returning to the Gold Coast in 1947, he became the leader of the nationalist party, paving the way for independence. FTP, name this first prime minister and first president of Ghana, also the first black leader in post-colonial Africa.

Answer: Kwame _Nkrumah_

Bonii

1. (Maddog_linguistics) FTPE, identify these areas of study in linguistics.

10—This is the study of different sounds employed in a language.

Answer: _phonetics_

10—The study of the internal structure of words.

Answer: _morphology_

10—An obscure branch of linguistics, it refers to the idea that vocal sounds have meaning. The only popular book on the subject is *Gods of the Word*.

Answer: _phonosemantics_ (accept sound symbolism)

2. (jlive_philo) Supply the pairs of terms from the philosophy of Immanuel Kant, five for one or fifteen for both members of each pair.

15—Kant was the first to suggest that propositions be divided into these two types—ones in which the concept of the predicate is contained already in the concept of the subject and ones in which no such containment occurs and new knowledge can be gained.

Answer: _analytic, synthetic_

15—Kant applied this division of propositions—into those that can be known independent of experience and those that cannot—to concepts as well. He denied that this distinction is equivalent to the analytic/synthetic distinction.

Answer: _a priori, a posteriori_

3. (laura_flit) FTPE, name the French author from description.

10—Her first novel, *Rose Et Blanche*, was written in collaboration with Jules Sandeau, from whom she took her pen name. Her most successful novels include *Le Compagnon du Tour de France*, *Consuelo*, and *Le Meunier d'Angibault*.

Answer: George _Sand_

10—At the age of 55, he first tried his hand at children's literature and in 1697 he wrote *Tales and Stories of the Past with Morals*, with the subtitle: *Tales of Mother Goose*. Its publication made him very popular and marked the beginnings of a new literary genre, the fairytale.

Answer: Charles _Perrault_

10—His more famous works include *Mysterious Island*, *In Search of the Castaways*, and *Five Weeks in a Balloon*.

Answer: Jules _Verne_

4. (kyle_misclit) 30-20-10-5—Identify the playwright given the following clues.

30—At an Athenian celebration in 480 BC, this man was the leader of the chorus of dancing and singing naked boys.

20—He was the first to add the presence of a third actor in his plays.

10—He may have won first at the Athens drama festival eighteen times, most notably for a trilogy of plays centered in Thebes.

5—Three of his plays are *Antigone*, *Oedipus Rex*, and *Oedipus at Colonus*.

Answer: _Sophocles_

5. (piguy_curr) Answer these questions for the stated number of points about a bird discovered in May 2003 by zoologists at Iowa State University.

5—The birds were discovered on Kent Island, a part of this Canadian province.

Answer: _New Brunswick_

15—This nocturnal bird, found from Norway to Japan, can live a very long time—up to 30 years. Name this bird that weighs just one-tenth of a pound but can brave harsh winds to forage on the open seas.

Answer: _Leach's storm petrel_

10—It is postulated that the Leach's storm petrel has such a long lifespan because of irregularities in the repetitive bits of DNA that sit on the ends of the chromosomes in each cell, acting as protective caps. Instead of shortening with each cell division, they lengthen with age. Give the standard name for these "chromosomal caps."

Answer: _telomeres_

6. (piguy_bio) For the specified number of points, name the following endocrine glands from their descriptions.

5—It is only the size of a large pea and weighs only about 0.5 grams. It is known as the master gland of the body and produces and secretes at least 7 peptide hormones that exert far-reaching influence over body activities.

Answer: _pituitary_ gland

10—This gland is located in the neck region, in front of the trachea and below the larynx. The hormones produced in this gland increase a person's metabolic rate.

Answer: _thyroid_ gland

15—Located in the pancreas, cells in these little clusters secrete insulin and glucagon. About one million of these are present in the human pancreas.

Answer: _islets of Langerhans_

7. (tallpaul_bhist) FTPE, name the following significant pieces of British naval history.

10—In 1588, an English fleet led by Lord Howard defeated this fleet, whose purpose was the transportation of troops for the conquest of England.

Answer: _Spanish Armada_ (accept Invincible Armada)

10—This October 1805 battle ended the possibility of Napoleon's invasion of Britain, but Admiral Horatio Nelson was killed.

Answer: Battle of _Trafalgar_

10—This May 1916 engagement off the coast of Denmark during World War I preserved British control of the North Sea despite heavier losses than the Germans.

Answer: Battle of _Jutland_

8. (kerrith_blit) FTPE, given a line or lines, identify the T.S. Eliot poem from whence it came.

10—"Because these wings are no longer wings to fly / But merely vans to beat the air / The air which is now thoroughly small and dry / Smaller and dryer than the will..."

Answer: _“Ash-Wednesday”_

10—" (Come in under the shadow of this red rock,) / And I will show you something different from either / Your shadow at morning striding behind you / Or your shadow at evening rising to meet you; / I will show you fear in a handful of dust."

Answer: _“The Waste Land”_

10—"Go, go, go, said the bird: human kind / Cannot bear very much reality."

Answer: _“Burnt Norton”_ (prompt on “Four Quartets”)

9. (Maddog_ceurhist) FTPE, give the Napoleonic Marshall from clues.

10—This Marshall distinguished himself in the invasion of Russia and was appointed prince of Moscow. After defecting to Napoleon's side during the Hundred Days, he was defeated by Wellington at Quatre-Bras. Upon returning to France he was tried for Treason and shot.

Answer: Michel _Ney_

10—Appointed Prince of Pontecorvo after Austerlitz, he was chosen by the Swedish Legislature to succeed to that country's throne. He changed his name, became a protestant, and ended up fighting against Napoleon.

Answer: Jean Baptiste Jules _Bernadotte_ (accept Charles XIV of Sweden, Charles III of Norway, Carl XIV Johan, or Carl III Johan)

10—He fought under the Marquis de Lafayette in the American Revolution, was Chief of Staff during the Egyptian campaign, and served as Minister of War from 1799-1808.

Answer: Louis Alexandre _Berthier_

10. (Maddog_AsianHist) FTPE, answer these questions about ancient cities of Asia.

10—This city of the Ancient Indus Valley Civilization was located in the present region of Punjab and sat near the Ravi River. Along with Mohenjo Daro, it is viewed as one of the key cities of the civilization.

Answer: _Harappa_

10—For five and half centuries this city served as the capital of the Khmer empire, and was found by Yasovarman I, king from 889-900 AD.

Answer: _Angkor_

10—This city shared its name with the northern region of Mesopotamia of which it was capital. The first to rule in the city was Sargon, whose conquests ranged from Sumer to the Mediterranean.

Answer: _Akkad_ (accept Agade)

11. (tallpaul_bhlist) FTPE, give the name for these popular English royal buildings.

10—This castle in its namesake city was used as a royal residence until Henry VIII and was also often used to hold state prisoners, some of whom reportedly still haunt the grounds. It is also the home of the British crown jewels.

Answer: _Tower of London_

10—This castle in Berkshire is the oldest royal residence still in use. It withstood sieges in 1194 and 1216, and Edward III founded the Order of the Garter here in 1348. It has been remodeled several times.

Answer: _Windsor_ Castle

10—This most famous palace of the British monarchy is in London; it is the monarch's London residence. Purchased in 1762, it has a statue of Victoria in the front.

Answer: _Buckingham_ Palace

12. (jgaunt_alit) In response to the popularity of *My Prison Without Bars* and the subsequent decline in popularity of Pete Rose, FTPE give the author of the following sports autobiographies.

10—*That's a Winner!*

Answer: Jack _Buck_

10—*It's Not About the Bike: My Journey Back To Life.*

Answer: Lance _Armstrong_

10—*Over the Edge: Tackling Quarterbacks, Drugs, and a World Beyond Football.*

Answer: Lawrence _Taylor_

13. (Maddog_mischist) FTPE, identify the massacre.

10—Just days before the 1968 Mexico City Summer Olympics, thousands of university students gathered in the city's Plaza de Tres Culturas to peacefully protest social injustice. Government officials panicked, calling in riot police and eventually the army. On October 2, these law enforcement officials opened fire on the crowds, killing 325, wounding 2,000, and jailing or beating 2,000 more.

Answer: _Tlateloco_

10—Protests spawned in this South African town in 1976 after the government imposed Afrikaans as the official language of half of the subjects in school. Riots arose and spread to several towns, resulting in 575 deaths.

Answer: _Soweto_

10—This massacre resulted from a tin miners' strike in Bolivia in 1942. The miners demanded safer working conditions and more sanitary housing. When they refused to disperse, they were fired upon by Bolivian army troops, leaving hundreds dead.

Answer: _Catavi_ Massacre

14. (brian_alit) Name the author given his or her works FTPE.

10—*The Murders in the Rue Morgue.*

Answer: Edgar Allan _Poe_

10—*Roughing It.*

Answer: Mark _Twain_ (accept Samuel Clemens)

10—*Three Lives.*

Answer: Gertrude _Stein_

15. (laura_psych) Name the type of anxiety disorder FTPE.

10—A person suffering from this disorder experiences anxiety and excessive worry most of the time. The anxiety is not about any single life circumstance or situation, and it is unrealistic and excessive given the reality of the person's life.

Answer: _Generalized Anxiety_ Disorder (prompt on GAD)

10—This disorder is similar to Generalized Anxiety Disorder but is characterized by the occurrence of one or more unexpected discrete periods of intense fear or discomfort.

Answer: _Panic_ Disorder

10—People with this disorder experience recurring and persistent thoughts and acts which cause them significant distress.

Answer: _Obsessive-Compulsive_ Disorder (prompt on OCD)

16. (piguy_bio) For 15 points each, name the geologic periods during which the specified events occurred.

15—This period was between 408 and 360 million years ago, and saw vascular plants diversify and become well established. The first forests formed, and gymnosperms and bryophytes appeared. Amphibians, wingless insects, and fishes with jaws appeared, the latter of which diversified as well.

Answer: _Devonian_

15—This period took place between 144 and 65 million years ago, and saw flowering plants rise to prominence. Dinosaurs reached their peak and then became extinct along with toothed birds. The first primitive mammals also appeared during this period.

Answer: _Cretaceous_

17. (Maddog_AmHist) The weather is beautiful all year, the beaches are great, and the landscape is magnificent. It's difficult to believe it is part of the United States. FTPE, answer these questions about the history of Hawaii.

10—This man was the first European to land in the islands when he arrived in 1778. He named them after his patron, the Earl of Sandwich, and he would eventually be killed by the natives in an argument over a stolen boat.

Answer: James_Cook_

10—Six years after Cook's death, this chieftain on the island of Hawaii began waging war to unify the islands. He gained control over all of the major islands and became the first ruler of a unified Hawaiian Kingdom.

Answer: _Kamehameha I_ (accept Kamehameha the Great)

10—This last Hawaiian monarch came to power after the death of her husband King David Kalakaua in 1891. She opposed American business intrusion into the islands and after trying to impose a new constitution was deposed in January of 1893.

Answer: _Liliuokalani_

18. (jlive_math) Given a set and an order relation, tell whether it has the same order type as the integers, the positive integers, the real numbers, or none of the above under the usual less-than order.

10—The integers cross the interval from 0 to 1 closed at zero and open at one under the dictionary order.

Answer: _real numbers_

10—The rational numbers under the usual less-than order.

Answer: _none of the above_

10—The set of all elements of the form one divided by n for n an element of the positive integers under the greater-than order.

Answer: _positive integers_

19. (piguy_chem) Essential amino acids cannot be synthesized in the body and must be provided in the diet. For five for one, ten for two, twenty for three, or thirty for four correct responses, name as many essential amino acids as you can.

Answer: _arginine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophan, valine_
(prompt on any abbreviations)

20. (piguy_sports) Sometimes sports players abbreviate or even completely deviate from their given names. FTPE, given a player, give his full given name.

10—J.D. Drew.

Answer: _David Jonathan Drew_

10—Ken Griffey Jr.

Answer: _George Kenneth Griffey Jr._

10—C.C. Sabathia.

Answer: _Carsten Charles Sabathia_

21. (tim_cs) Given the domain extension of a website, identify the country it is associated with, FTPE.

10—CN.

Answer: _China_

10—YU.

Answer: _Yugoslavia_

10—PR.

Answer: _Puerto Rico_

22. (jlive_phys) Answer the following related questions FTPE.

10—Sometimes the sun shines through a haze or a cloud break such that light is scattered into especially bright beams called what?

Answer: _crepuscular rays_

10—One of these rings around the sun or moon indicates the presence of cirriform clouds.

Answer: _halo_

10—The twinkle or flicker of starlight due to atmospheric interference is called what?

Answer: _scintillation_

23. (Maddog_Art) FTPE, identify these works by Mexican Modernist artists.

10—In this mural by Diego Rivera, a young figure in overalls dominates the center of the painting. Behind the central figures are two ellipses: one representing living organisms, the other the vastness of outer space.

Answer: _Man, Controller of the Universe_

10—In this work by Frida Kahlo, she portrays her two ethnic sides, the European and the Mexican. The two portrayals are holding hands and linked through an artery running between their exposed hearts.

Answer: *The Two Fridas*

10—This photograph by Manuel Alvarez Bravo depicts shoppers on a market street. The title figures hang above the shoppers, smiling and glamorously dressed in real clothing.

Answer: *The Laughing Mannequins*