Technophobia VIII
Kearney Round Three
Dolph Round Four
Jimbo Round Five

USC B
Scott Callaghan

November 10, 2003

Note to moderator: Remind teams not to discuss this packet until after round five.

1 USC B Tossups, Round Beta

1. Though he was named president of the German Association for Psychotherapy before World War II, this man was actually born in Switzerland in 1875. Increasingly uncomfortable with the Aryan ideology forced on the association, he resigned. His work is based upon psychic totality and psychic energism, positing two dimensions of the unconscious – personal and collective. For ten points, name this psychologist who famously split from Freud in 1914 upon disagreement over the psychological basis for neurosis.
   Answer: C.G. (Carl) <u>Jung</u>

2. The son of Sif and stepson of Thor, his father's identity is uncertain. He is possibly the son of Orvandil the Archer, which makes sense as this god was famous for his skill with his yew longbow. He also possessed a shield he could transform into a boat and a magic ring mortals could swear upon. A resident of Ydal, FTP name this Norse god of snowshoes, skiers, the hunt, and archery.
   Answer: <u>Ull</u> (accept <u>Uller</u>)

3. When this quantity doesn't depend on Cartesian coordinates, the corresponding momentum component is conserved. Schrödinger's equation has separable solutions when it is time-independent, and for most systems, the virial theorem states that its expectation value is -2 times the expectation value of kinetic energy. A conservative force can always be expressed as the negative gradient of, for ten points, what quantity which adds with kinetic energy to give the total mechanical energy?
   Answer: <u>potential</u> energy

   accept "Lagrangian" before Schrödinger

4. It left over 300 dead and caused $200 million in damage. Due to drunks and looters, Mayor Roswell Mason entrusted the city to General Sheridan by placing it under martial law. Little was left of the business district, including the Palmer House and the Sherman hotels, but the gothic stone Water Tower was still standing. For ten points, name his disaster supposedly started at 127 De Koven Street by an ornery cow.
   Answer: The Great <u>Chicago Fire</u>

5. This nameless main character falls for a "bread and butter" girl, serves in World War II, and lives with his mother. One of the two secondary characters is in training and is determined to bring about the protagonist's downfall. The titular character, a sometimes centipede, watches as the plan fails and then eats his nephew, Wormwood, for failing to corrupt the protagonist in accordance with the plans of "Our Father Below." For ten points, name this tongue-in-cheek work by C.S. Lewis, a collection of correspondances from a senior demon to a junior tempter.
   Answer: **The Screwtape Letters**

6. Like everyone else, he worked as an ambulance driver in France during World War I but was then placed in a French prison camp due to his outspoken anti-war sentiments. After the war he returned stateside and recounted this experience in his novel *The Enormous Room*. In addition to being a novelist, he was also an artist, playwright, and most famously, a poet. For ten points, name this Cambridge, Massachusetts native whose work is most recognizable for its radical experimentation with spelling, syntax, form and punctuation.
   Answer: **e e cummings**

7. It can be synthesized using a Friedel-Crafts alkylation, specifically by starting with benzene and a methyl halide, with aluminum chloride acting as a catalyst. Its molecular weight is approximately 92 grams per mole, about 14 more than benzene, its base unsubstituted counterpart. Harmful exposure to it can come from sniffing glue, paints, and/or gasoline. For ten points, what is this compound, the second "T" in TNT?
   Answer: **Toluene or methylbenzene**

8. In October 2003, this country topped Sweden for the highest percentage of female parliamentarians at 48.8 percent. This was assisted by the fact that women were guaranteed 24 seats under a new constitution. Election observers felt ballot boxes may have been stuffed, however, citing Paul Kagame's August presidential victory with 94 percent of the vote as further evidence. For ten points, name this country whose 2003 elections were its first since a 1993 genocide.
   Answer: **Rwanda**

9. After his retirement in 1886, he was appointed consul general to Ecuador in 1902. He continued to work on oil paintings and book illustrations, the only hints of his former profession. That profession was far more controversial, and resulted in Boss Tweed offering him half a million dollars to leave New York and go to Europe to study art. He turned down the offer and instead helped to bring down Tweed and Tammany Hall. For ten points, name this political cartoonist, best known for creating the Republican elephant.
   Answer: **Thomas Nast**

10. The name originates form a word meaning "bridge builder," because they were the bridge between men and the gods. Julius Caesar held this office until his death, as it was a lifetime appointment. Lepidus was given this position after rising against Augustus. Each successive emperor then held the title until Christianity dominated, and this title then became one of the Pope's many names. For ten points, what is this highest religious post in the Roman world, the leader of the College of Pontiffs?
   Answer: **Pontifex Maximus**

11. In his rookie campaign, this lefty posted an impressive 14-6 record, including 2 complete-game shutouts. He was an 8th-round draft pick of the Chicago Cubs, so it was especially lucky for him that a 2002 trade ultimately put him in the visiting bullpen when the Cubbies lost game 7 of the 2003 NLCS at Wrigley Field. For ten points, who is this high-kicking pitching phenom for the Florida Marlins?
   Answer: **Dontrelle Willis**

12. Article Seventeen, the last, protected the "inviolable and sacred" right of property. The sixth article identified the law as the expression of the general will, in conscious imitation of Rousseaus Social Contract. Two years later, Olympe de Gouge wrote a new version of this document, appealing to the "mothers, daughters, sisters, and representatives of the nation," rather than the male audience

indicated in the original. For ten points, name this document, proclaimed by the National Assembly in August 1789 in order to secure the title liberties.

Answer: **Declaration of the Rights of Man** and Citizen (even though it's a title, only the underlined parts are necessary)

13. They have "cis" and "trans" faces, although those may be difficult to differentiate without looking at its cellular context. Typically a protein will move through it in stages, with different oligosaccharides being added to it in each layer. Phosphorylation also occurs, especially in the cis region. The middle regions mostly add carbohydrates or other groups, while the trans region shuffles liposomes, vesicles, and lysosomes, before letting them bud off and heading to their destinations. For ten points, name this membrane-bound organelle, a veritable sorting hat for proteins in the cell named for its discoverer.

Answer: **Golgi** Body/Apparatus

14. He was one of the entertainers who accompanied Memnius on his journey to Bithynia. However, he did not profit from this adventure, as can be seen from his poems, in which the lady friend of an acquaintance asks to borrow a litter and some carriers the poet falsely claims he has. Famous for his usage of the neoteric style of poetry, name, for ten points, this Verona-born Roman poet most famous for his graphic poems to Lesbia.

Answer: Gaius Valerius **Catullus**

15. His appearance created a two-day truce between warring Nigeria and Biafra so that both sides could see him. The shah of Iran reportedly waited three hours at the airport just to meet him. In the early 1970s a survey found that his name was the second most recognizable brand in Europe, right behind Coca-Cola. For ten points, name this sports legend, the only player to be on three World Cup championship soccer teams.

Answer: **Pele** (accept Edson Arantes do Nascimento)

16. It is a general case of the Bolzano-Weierstrass theorem, and it can be used to show that the three following conditions on a set A are equivalent: Every sequence of points in A has a limit-point in A, every open cover of A has a finite subcover, and A is closed and bounded. For ten points, name this theorem of analysis that says all compact sets are closed and bounded for the real numbers.

Answer: **Heine-Borel** Theorem

17. In *Moulin Rouge*, Toulouse-Lautrec calls the Duke one of these during the handkerchief confusion scene in the Moulin Rouge. The word is derived from Italian for one who has a house at the center of his village. The stereotypical medieval one was the village mill-owner, and later included bankers, merchants, and industrialists. For ten points, name this wealthy social class, slammed by Marx as the enemy of the proletariat.

Answer: **Bourgeoisie**

18. Its design is based on the Chinese number 8 for luck, with 8 segments that look like gift boxes, or, according to the developers, bamboo. Although it won't be occupied until next year, Taiwan is already celebrating – at least until the Shanghai World Financial Center is completed in 2007. Taller than the Petronas Towers at 1,676 feet, for ten points, name this new tallest building in the world whose name sounds like an introductory class about Taiwan's capital.

Answer: **Taipei 101**

19. He was born on August 14th, 1950, in Tacoma, Washington. As a child, he was most interested in putting two bugs in a jar and seeing which would first eat the other. This odd scientific curiosity showed itself when Seattle's *Pacific Search* picked up his first comic, "Nature's Way." His big break came when he showed his comic to the *San Francisco Chronicle*, who syndicated it starting on January 1, 1980 after renaming it. For ten points, name this man, the creator of *The Far Side*.

Answer: Gary **Larson**

20. He ended up in a subcommittee devoted to deciding whether commas should go inside or outside of brackets. When he heard the trumpet on the telescreen, he doubted the news, but then he saw the face of that rock against which the hordes of Africa had dashed themselves in vain. There in the Chestnut Tree Café, hearing the news of Oceania's victory, he realized that he had won victory over himself. He loved Big Brother. For ten points, identify this central character of George Orwell's *1984*.
   Answer: **Winston** **Smith**

   Accept either

2   USC B Bonuses, Round Beta

1. 30-20-10, Name the Nobel laureate from the following clues.

    30 This author was born in Lachine, Quebec in 1915 but was raised in Chicago. He published his first novel, *Dangling Man*, in 1944.

    20 His honors include winning the National Book Award three times, in 1954, 1965, and 1971, along with the B'nai B'rith Jewish Heritage Award in 1976.

    10 He was awarded the Pulitzer Prize in 1976 for his novel, *Humboldt's Gift*.
    ***Answer:* Saul <u>Bellow</u>**

2. The 1962 Golden Globes celebrated an exceptionally remarkable year in the entertainment industry. For ten points each, name the following award recipients based on the given descriptions.

    (a) This film, awarded the Best Picture award for Drama, starred Peter O'Toole, Anthony Quinn, and Omar Sharif.
    ***Answer:* <u>Lawrence of Arabia</u>**

    (b) This winner of Best Musical starred Robert Preston and Shirley Jones and featured the compositions of Meredith Wilson.
    ***Answer:* Meredith Wilson's <u>The Music Man</u>**

    (c) This Best Actor starred in a movie directed by Robert Mulligan that was based off a book that won its author a Pulitzer Prize in 1961.
    ***Answer:* Gregory <u>Peck</u> (from *To Kill a Mockingbird*)**

3. Fifteen points each, name the book written by a female author given its first line. If you need the author, you will get five points.

    15 "It was a queer, sultry summer, the summer they electrocuted the Rosenbergs, and I didn't know what I was doing in New York."

    5 Sylvia Plath
    ***Answer:* The <u>Bell Jar</u>**

    15 "You better not never tell nobody but God."

    5 Alice Walker
    ***Answer:* The <u>Color Purple</u>**

4. Consider T, a linear transformation from V to W.

    (a) For ten, the set of vectors in V that T maps into 0 is called this, which is equivalent to the nullspace.
    ***Answer:* <u>kernel</u>**

    (b) For another ten, what is the set of all vectors in W that are images under T of at least one vector in V?
    ***Answer:* <u>range</u>**

    (c) For five points each, what two quantities, the dimension of the range and and the kernel, sum to the dimension of V.
    ***Answer:* <u>rank</u> <u>kernel</u>**

5. Name the artist, 30-20-10.

30 At the age of 30, in 1896, he gave up a successful career as a lawyer and economist to become a painter, enrolling in Anton Azbe's painting school in Munich.

20 He published an article in 1912 called "On the Spiritual in Art, Especially in Painting" on the concept of "inner necessity", which marked his transition from objective to non-objective art.

10 This Russian painter linked music to color and used color in a highly theoretical way, associating tone with timbre, hue with pitch, and saturation with the volume of sound.
Answer: **Wassily** <u>**Kandinsky**</u>

6. Answer these questions about blood.

   (a) This is the general term for the study of blood and highly related topics.
   Answer: <u>**Hematology**</u>

   (b) This is a test, whose results are a chart or graph that has a scattering of dots, showing the percentages of different types of blood cells. It differs from a general blood count because it uses a total count of one hundred cells.
   Answer: <u>**Differential**</u>

   (c) This is the way by which blood cells differentiate into red, white, and so forth.
   Answer: <u>**Hematopoiesis**</u>

7. Places involved in the Scramble for Africa, for ten points each.

   (a) Bismarck exploited tension between the imperial ambitions of the British and French at this 1884 conference, which partitioned most of the continent.
   Answer: **Congress of** <u>**Berlin**</u>

   (b) The Ndebele of this colony rebelled in 1896, after the area's colonial police were captured during the Jameson Raid.
   Answer: <u>**Southern Rhodesia**</u>

   (c) Kitchener's British army forced Captain Marchand's French garrison to evacuate this remote Sudanese outpost in 1898.
   Answer: <u>**Fashoda**</u>

8. Every year, they reunite to pop open bottles of champagne when the last undefeated team suffers its first loss. For ten points each,

   (a) This is the practice of the members of what sports team?
   Answer: <u>**Miami**</u> <u>**Dolphins**</u>

   (b) As of November 4, 2003, they are the last remaining undefeated team in the NFL this season.
   Answer: <u>**Kansas City**</u> <u>**Chiefs**</u>

   (c) The 1985 Chicago Bears might have been in the NFL record books along with the '72 Dolphins were it not for a nailbiting Monday Night loss to what team?
   Answer: <u>**Miami**</u> <u>**Dolphins**</u>

9. We all love Super Nintendo; Let's take a moment to remember why. FTSNOP:

   (a) For 10: This technique in Metroid Prime allowed Samus Aran to restore all of her health, assuming she has less than 29 health, at least 10 missiles and super missiles, and at least 10 super bombs.
   Answer: **The** <u>**Crystal Flash**</u>

   (b) For 10: This item gave Zelda's Link the ability to charge across the screen, which allowed him to catch a kid in Kakariko and knock the Book of Mudora off a shelf.
   Answer: **The** <u>**Pegasus Boots**</u> (Accept: <u>**Pegasus Shoes**</u>)

(c) If you were thorough, you would have a plethora of characters at the end of Final Fantasy 6. Do keep in mind that anyone who says General Leo was in their party is a liar and a cheat. Give the number of characters you would have, 5 points for within 3, 10 points for within 1.
Answer: <u>14</u> **13-15 = 10 points, 11-17 = 5 points. (For cool points, they are: Terra, Locke, Edgar, Sabin, Celes, Shadow, Cyan, Gau, Setzer, Mog, Strago, Relm, Umaro, and Gogo)**

10. Identify the following CS terms related to Object-Oriented Programming.

    (a) For five, this language, well known even to non-computer savvy folk for its widespread Internet applications, is said to be named for a favorite late-night caffeinated companion of many coders.
    Answer: <u>Java</u>

    (b) For ten, Java is an object-oriented language, a language type marked by usage of this structure type, the keystone element in such concepts as encapsulation and inheritance.
    Answer: <u>class</u>

    (c) In C++ and Java, variables and functions in classes must be one of three types, which control how other objects are able to interact with the class members. For five each, what are these three types their class member access modifiers?
    Answer: <u>private</u>, <u>public</u>, <u>protected</u>

11. Name the man, 30-20-10.

    30 He hurt his hip wrestling an unknown contender and changed his handle.

    20 He envisioned what could have been the first space elevator, a means of transporting seraphim to and from the Earth that later inspired a Huey Lewis song.

    10 He stole his older brother Esau's birthright by wearing a goatskin and tricking his father Isaac.
    Answer: <u>Jacob</u> or <u>Israel</u>

12. The Ig Nobel prizes are awarded by Nobel Laureates to individuals for "achievements that cannot or should not be reproduced." For ten points each, answer these questions about 2003 Ig Nobel awards:

    (a) The Ig in Economics was awarded to Karl Schwarzler and this nation, for making it possible to rent out the entire country for conventions and weddings.
    Answer: <u>Liechtenstein</u>

    (b) The Ig in Engineering was given to John Stapp, George Nichols, and this man for creating his namesake law in 1949.
    Answer: **Edward** <u>Murphy</u>**, Jr.**

    (c) C.W. Moeliker of Rotterdam won the Ig in Biology for documenting the first recorded case of homosexual necrophilia in this bird.
    Answer: **Mallard** <u>duck</u>

13. Answer these questions about the reign of Charles I, for ten points each.

    (a) During his personal rule, Charles extended this tax, a traditional means of supporting the Royal Navy, to inland taxpayers for the first time.
    Answer: <u>ship money</u>

    (b) Charles fought two disastrous wars of this name, with the intent of imposing religious conformity on the Scottish Presbyterians.
    Answer: <u>Bishop's Wars</u>

(c) Out of money after the Second Bishop's War, Charles was forced to call this Parliament, which would behead him nine years later.
Answer: the **Long** Parliament

14. Your author is a big fan of the *Aeneid*; hopefully, so are you. FTPE:

(a) A priest of Neptune, he and his two sons were eaten by twin sea-snakes after giving the famous warning *quidquid id est, timeo Danaos et dona ferentis,* translated, "whatever it is, I fear the Greeks, even bearing gifts."
Answer: Laocoon

(b) Aeneas's first wife, who falls behind and disappears while fleeing Troy
Answer: Creusa

(c) The African king, a suitor of Dido and son of Jupter Hammon, whose supplication provokes Jupiter into breaking up Aeneas and Dido's relationship.
Answer: Iarbus

15. Nine candidates have declared their intent to run for the Democratic presidential nomination as of November 10, 2003. For five points each, name the six of those 9 Democratic presidential hopefuls who are or have been members of Congress.
Answer: John Kerry, Dick Gephardt, John Edwards, Carol Moseley-Braun, Dennis Kucinich, and Joe Lieberman

16. Forms of medieval monasticism, for ten points each.

(a) The first great order of monks, they followed a rule composed by their founder, the sixth-century abbot of Monte Cassino.
Answer: Benedictines

(b) Known as the "Friars Minor," this order embraced the vow of poverty and preached to the urban poor.
Answer: Franciscans

(c) Led by Bernard of Clairvaux, the charismatic preacher of the Second Crusade, this order founded in the twelfth century reacted against the allegedly lax practices of the Cluniac Benedictines.
Answer: Cistercians

17. For ten points each, name the Shakespearean play given an antagonist.

(a) Shylock
Answer: The Merchant of Venice

(b) Aufidius
Answer: Coriolanus

(c) Edmund
Answer: King Lear

18. For ten points each, name the Western African country given a widely-spoken and government-recognized tribal language.

(a) Wolof
Answer: Senegal

(b) Twi (CHWI)
Answer: Ghana

(c) Hausa
   Answer: **Nigeria**

19. For ten points each, identify the following Triple Crown winners from the 1970s.

   (a) In 1973 this horse became the first Triple Crown winner in 25 years.
      Answer: **Secretariat**

   (b) Four years later, this colt became the only undefeated horse to win the Triple Crown.
      Answer: **Seattle Slew**

   (c) The following year, this horse won the Triple Crown but lost to Seattle Slew. It was the first meeting between two Triple Crown winners.
      Answer: **Affirmed**

20. For ten points each, given the date, give the 20th-century leader who was assassinated.

   (a) June 28, 1914
      Answer: **Archduke** Franz (Francis) **Ferdinand**

   (b) August 20, 1940
      Answer: Leon **Trotsky** or Lev **Bronstein**

   (c) February 21, 1965
      Answer: **Malcolm X** (Malcolm **Little**)