

Technophobia IX Round 2

UCSD

Coram, Kevin, Matthew, Drew

November 6, 2004

1 UCSD Tossups, Round 2

1. The story broke when the *New York Sun* published letters obtained by Henry Macomb [MAH - coh] listing congressmen who had purchased stock for the former Pennsylvania Fiscal Agency below market value. Congressmen Brooks and Ames received censure from James G. Blaine's investigation for giving fat contracts to the firm they partially owned. Despite this largesse, subcontractors like Brigham Young were unpaid and helped themselves to rolling stock and materials of this defunct Union Pacific subsidiary. For ten points, Colfax and the rest of the Grant administration got the blame for what railroad construction scandal?

Answer: Credit Mobilier of America Scandal

2. Issues raised include the question of whether a woman who never denied her husband her bed could be charged with adultery, especially since no women were involved in the drafting of the law Filippa broke. That question is raised by Fiametta, who along with six other women and 3 men each spend a day entertaining the group which whiles away their time in a villa outside Florence while avoiding the bubonic plague. For ten points, name this collection of 100 tales told in 10 days, a work by Giovanni Boccaccio.

Answer: The Decameron, prompt on anything involving "Filippa" before her mention

3. Its IUPAC name is 3,7-Dihydro-3,7-dimethyl-1H-purine-2,6-dione. Although it is chemically similar to and often confused with caffeine, its effects, while comparable, are much milder, and it tends to have a mood-improving effect in most people. Some mammals, such as horses and dogs, have difficulty metabolizing it, but it is safe in large quantities for humans. For ten points identify this component of the "food of the gods," the alkaloid responsible for the flavor of chocolate.

Answer: Theobromine

4. An engineer by profession, a collection of his work in the Luxembourg palace in 1897 was the first exhibition of Impressionist art in a French museum. Like Renoir, he painted a *Boating Party*, and he sits next to the actress Angele in Renoir's version. His works, such as *Le pont de l'Europe* and *The Yerres, Rain*, however, tend to display more verisimilitude and were accused by Emile Zola of depicting "Photographic Realism." This is, For ten points, what artist of *Paris Street: A Rainy Day* and *The Floor Scrapers*?

Answer: Gustave Caillebotte

5. She encountered depression at an early age, stemming from an unrequited crush on her older brother, an experience that may have influenced her later work. Earning her medical degree at the University of Berlin in 1913, she began work at the Institute for Psychoanalysis where she developed her Theory of Neurotic Needs, suggesting that neurosis is a natural coping technique given the human tendency toward a fractured self. Considered the foremost pioneer in feminine psychology, this is, for ten points, which psychoanalyst, author of such works as "The Problem of Feminine Masochism" and "Maternal Conflicts," and originator of the term "Womb Envy?"

Answer: Karen Horney

6. After the Sorbonne started to confiscate Greek books, this Franciscan Monk petitioned Clement VII to transfer to the Benedictines. He developed new hernia treatments and wrote a new version of Galen's *Ars parva*, but he's better known for a series of five books which praised the wines of his birthplace of Chinon while telling fantastic tales of the Pincochroline war. Also known by

his pseudonym Alcofrybas Nasier, this is for ten points, what French author who wrote about the giants Gargantua and Pantagruel?

Answer: François Rabelais

7. Leonard Thompson was the first human to be treated with this substance named by Edward Schafer. Although Minkowski suggested the basic technique, extraction of this substance was prevented by proteolytic enzymes from acinar cells of the same organ. However, the method of ligating the duct to cause such trypsin-producing cells to atrophy while leaving the desired cells unharmed won Fred Banting the 1923 Nobel Prize. For ten points, name this substance produced in the islets of Langerhans that is now used to treat diabetes.

Answer: Insulin

8. Its final version draws heavily on the work of William Tyndale, despite provocative wordings. After a meeting at Hampton Court in 1604, its production went into high gear with explicit instructions to avoid political wordings. Forty-seven men worked on the project at three sites: Westminster, Oxford and Cambridge, until the first version was ready for production. For ten points, name this translated religious text, first printed in 1611 by Robert Baker, commissioned by a Stuart monarch.

Answer: The King James Version of the Bible or KJV

9. His 1868 work "England and Ireland" calls for the same land reforms he argued for in Parliament as MP for Westminster, while his "Considerations on Representative Government" calls for proportional representation and women's suffrage. He also addressed women's equality in "On the Subjugation of Women," but is better known for his defense of Empiricism in his 1830 "System of Logic" and his work in political economy. For ten points, name this disciple of Jeremy Bentham, the author of "On Liberty'."

Answer: John Stuart Mill

10. They represent the rows and columns of the Dayhoff's PAM matrix, which was derived by examining the phylogenetic tree of near-relatives. Of the twenty in the PAM matrix, all but two have acidic carboxyl group and an NH_2 group connected to an organic R group; the two exceptions, proline and hydroxyproline, have the namesake functional group in a cyclic ring. For ten points, name these building blocks of proteins.

Answer: amino acids

11. The main characters of this novel can count no higher than four and refer to all larger numbers as "a thousand," or "hraiir;" hence one character with many older siblings is sometimes referred to as Hrairoo. Major plot elements include the realization that there aren't any females, and the subsequent schemes to retrieve them from Efrafa and Hazlewood Farm. Holly, Bigwig, and Hazel journey from Sandleford Warren to start a new warren at the title location in, for ten points, what novel by Richard Adams?

Answer: Watership Down

12. While it is not a true alcohol because of unsaturation, it is mixed with isoamyl alcohol and chloroform to extract nucleic acids. Dr. John H. Kellogg wanted to use this chemical to prevent girls from masturbating, and Joseph Lister used it as an antiseptic even though it can burn and scar skin. It is created by peroxidation of cumene, and is weakly acidic, hence its older name, "carbolic acid." For ten points, give the term for a benzene with one hydroxyl group.

Answer: Phenol or Bakelite

Accept "carbolic acid" on early

13. He brought Dione Armstrong out of a coma, fitting because as a child he was beaten so badly by D'Angelo Baily that he himself fell into a coma and was subjected to unnecessary treatments by his Munchausen-by-proxy suffering mother, as detailed in *Cleaning out my Closet*. His first album was produced by Dr. Dre, who saw him at the 1997 Rap Olympics. At the 43rd Grammys, he performed a controversial duet of *Stan* with Elton John in lieu of Dido. This describes, for ten points, what controversial white rapper, the star of *8 Mile*?

Answer: Eminem or Marshall Mathers, prompt on Slim Shady

14. The first has a Minuet and Polonaise added after the typical fast/slow/fast structure and may have been lifted in part from its composer's *Hunting Cantata*. The second contains first movement solos for the violin, oboe, recorder, and trumpet, with the trumpet performing the bulk of the solo work in the final movement. The third has only a pair of chords and some improvised filler for its middle movement, and the sixth and last features extra emphasis on the viola part which may have been played by its composer's patron, Leopold of Anhalt-Cothen [AHN - haalt CUH - tehn]. For ten points, what is this collection of six works, a failed job application from Johann Sebastian Bach to the margrave of the titular German state?

Answer: Brandenburg Concertos

15. It was originally found by Peter O'Reilly and Pat Laughlin in 1859 in Six-Mile Canyon. However, it was named for the man who stumbled on their discovery and convinced them that it was part of his property. Legend has it that the town that grew near it was named when another man, James Finney, nicknamed Old Virginny, christened it "Virginia City." The key to that town's incredible wealth was the blue mud found in mines here that turned out to be high quality silver ore. For ten points, name this mother lode, so rich that Abe Lincoln was persuaded to make the Nevada territory into a state.

Answer: Comstock Lode

16. His name and situation are similar to the narrator of Sheridan Le Fanu's "Carmilla;" we are told he has "an iron nerve" and the "temper of the ice-brook." Well-informed on everything from Tacitus to hypnosis, he is brought in from Amsterdam by Dr John Seward to solve a mysterious ailment. In film adaptations, he is more specialized and has been played by Edward Van Sloan, Peter Cushing, Laurence Olivier, Anthony Hopkins, and Mel Brooks. For ten points, name this doctor who loosely forms the basis of a 2004 Hugh Jackman movie.

Answer: Abraham Van Helsing, MD, DPh, DLitt, etc, etc.

17. Born Zhao Zheng, he ascended to the throne at the age of thirteen; exiled his father Lu Pu-wei; and began, with the help of his minister Li Su, on a campaign to bring the six kingdoms of China under the Ch'in. Near the end of his life, he became interested in alchemy and the search for the fountain of youth, but to hedge his bets also created a huge tomb. For ten points, name this first Ch'in emperor who commissioned for his tomb the terracotta soldiers of Xi'an.

Answer: Shih-Huang-Di or Shih-Huang-Ti

18. It was introduced by Danny Biasone, owner of the Syracuse Nationals, during the 1953-54 season as part of a campaign to boost ratings. Fittingly, Biasone's Nationals flourished after its immediate adoption, winning the franchise's lone championship. In celebration of its impact, it was demonstrated at a Metropolitan Basketball Writers meeting, which gave Commissioner Maurice Podoloff the chance to speak only 18 words. For ten points, identify this invention which Biasone defined by dividing the 48 minute length of a game by the 120 scoring attempts he estimated to be in a typical game.

Answer: 24-Second Shot Clock

19. The main plotline of this work details the rivalry between the Kauravas [COW-ruh-vaz] and the Pandavas [PAWN-duh-vaz], descendants of the legendary king referenced in the title. The rivalry escalates when Duryodhana [door-yo-DAHN] of the Kaurava family succeeds in winning all of the Pandavas worldly possessions in an unfair dice game, forcing the losers into 12 years of exile. Upon their return, the Pandavas mount an assault on the Kauravas, ultimately regaining their possessions, at the cost of great loss and destruction. This describes, for ten points, which Indian epic, generally considered to have been composed by the sage Vyasa, the most sacred passage of which is the Bhagavad Gita.

Answer: The Mahabharata

20. He claims to have fought in World War I and received a decoration from almost every allied country, including one from Montenegro which he shows to the narrator. A North Dakotan by birth, he spent five years working on Dan Cody's yacht and met the woman he loved in Louisville shortly before travelling off to war. After the war, he fell in with lowlifes like Meyer Wolfsheim, and that woman is now as out of reach as the green light on the end of a dock and the American Dream which it symbolizes. For ten points, who is this man killed by Mr. Wilson and loved by Daisy Buchanan?

Answer: Jay Gatsby or James Gatz

21. The treaty of Seville forbade men like him from trading with Spanish colonies, and the Spanish were given permission to board and search British vessels to ensure compliance. In April 1731, his ship, the *Rebecca*, was boarded and set adrift, and his claims that he was dealt a grievous injury at the hands of the Spanish coast guard forced a reluctant Walpole government to declare war on Spain. For ten points, name this man who displayed a pickled body part in the House of Commons.

Answer: Robert Jenkins

22. These islands bill themselves as having over 6,000 archaeological sites and over 200,000 puffins, but most of the economy of this group of over a hundred islands rests not in tourism but in fishing and oil production. Major islands include Unst, Yell, and Mainland, the last of which contains the city of Lerwick, this island group's administrative capital. For ten points, which North Sea islands were annexed from Norway by Scotland in the 15th century and are best known for their ponies?

Answer: Shetland islands

2 UCSD Bonuses, Round 2

1. Identify these Euripides plays from descriptions for ten points each.

- (a) Aphrodite, angry at the title character for not showing proper reverence, plots to make his father, Theseus, wish to Poseidon for the title character's death.

Answer: Hippolytus

- (b) Angry that her companion abandoned her to marry Creusa, the title character kills Creusa, Creusa's father Creon, and her own kids before running off to Athens.

Answer: Medea

- (c) The only complete Satyr play still in existence, this play features Silenus and the title character getting drunk together while the only other character outside the chorus plots to escape them both.

Answer: The Cyclops

2. It was originally translated into English as "Magister Ludi", the title attained by one of the main characters. for ten points each name ...

- (a) This Herman Hesse Novel.

Answer: The Glass Bead Game or Das Glasperlenspiel

- (b) The main character of "The Glass Bead Game", who finally resigns his post as "Magister Ludi" to reenter the outside world.

Answer: Joseph Knecht (Accept either name)

- (c) The fictional province whose schools Joseph attends and on whose board of Educators Knecht sits before his resignation.

Answer: Castalia

Identify these terms from when good money goes bad for ten points each.

- (a) This theory behind the relationship between the supply of money and the level of output of the economy, is indicated by the equation $MV=PQ$. If V , the velocity of currency is constant, increases in the currency supply lead to identical increases in price levels.

Answer: The Quantity Theory of money

- (b) This is the money a government earns due to the difference between the face value of the currency it prints and the actual cost of printing the currency. The hidden cost to it comes in the devaluation of all currency already in circulation.

Answer: Seignorage

- (c) If instead governments try to debase some of the existing currency to raise money, this man's eponymous rule that "Bad Money drives out the Good" comes into play.

Answer: Thomas Gresham

3. Identify the following 20th-century sculptors from their works, for ten points each...

- (a) 1913's *Bicycle Wheel*, made from an inverted wheel on a stool.

Answer: Marcel Duchamp

- (b) 1962's *Bus Riders*, made from plaster, cotton gauze, steel, and wood.

Answer: George Segal

- (c) 1976's *Clothespin*, made from Cor-Ten and stainless steel. Did we mention that it was huge?

Answer: Claes Oldenburg

4. For ten points each, answer these questions about what is, for many of us, our sole source of news.

- (a) He is the host of Comedy Central's "The Daily Show."

Answer: Jon Stewart

- (b) One of John's correspondents, this Canadian also produces shows with her acclaimed all-female sketch comedy troupe "The Atomic Fireballs."

Answer: Samantha Bee

- (c) This the 2004 book produced by Stewart and the "Daily Show" staff subtitled "A Citizen's Guide to Democracy Inaction."

Answer: America (The Book)

5. Each of these Greek rivers in Hades were also mentioned in The Divine Comedy. Identify them for ten points each.

- (a) Contrary to popular belief, according to both the Greeks and Dante it was this river rather than the Styx across which Charon ferried the souls of the dead.

Answer: Acheron

- (b) In the Inferno, this river is frozen over and forms the ninth circle of Hell, with Lucifer at its center.

Answer: Cocytus

- (c) This is the river of forgetfulness whose headwaters, according to Dante, are located in the Earthly Paradise atop the Mountain of Purgatory.

Answer: Lethe

6. Identify these Unix commands that are also real world words or terms for ten points each.

- (a) A file is just a sequence of characters, so rather than ~~rather than~~ simply playing with a string, this command ties strings together and spits it out on the console.

Answer: cat

- (b) It won't last as long as the fossils in La Brea, but this command "balls" multiple files and directories together.

Answer: tar

- (c) The results of this command that shows a file in base eight can be confusing and lead to blackouts, but *Pulp Fiction* taught us that any such problems go away with a syringe of epinephrine.

Answer: od

7. Identify these mostly unrelated things from probability theory FTP each for ten points each...

- (a) Two random variables X and Y satisfy this property if their joint density is equal to the product of the individual densities for each variable.

Answer: Independence

accept word forms

- (b) This theorem states that the normalized sum of a series of independent identically distributed random variables approaches a standard normal distribution.

Answer: Central Limit Theorem

- (c) This is a sequence of random variables such that the expectation of the $(n + 1)^{th}$ variable given the first n variables is itself equal to the n^{th} variable. It was originally used to analyze gambling systems like the st for which it was named.

Answer: Martingale

8. Identify the following surface features on Mars for ten points each...

- (a) The dead volcano that is Mars's (and for that matter the solar system's) highest mountain.

Answer: Olympus Mons

- (b) The largest of Mars's impact craters, named after Greece

Answer: Hellas Impact Crater or Hellas Planitia

- (c) The gigantic tectonic gash that was first observed by the Mariner 9 probe in 1972.

Answer: Valles Marineris

9. Boltzmann defined it for a macroscopic system in equilibrium as his namesake constant times the logarithm of the number of microscopic states which give rise to the macroscopic state. For ten points each, name: ...

- (a) This thermodynamic quantity

Answer: Entropy

- (b) The Electrical Engineer who developed the concept of informational entropy in his 1948 paper "A Mathematical Theory of Communication."

Answer: Claude Shannon

- (c) The theoretical construct consisting of two chambers of gas separated by a stopcock which fails to violate the 2nd law of thermodynamics due to the informational entropy generated by the namesake observer.

Answer: Maxwell's Demon

10. Ah, the joy of dancing! For ten points each, name:

- (a) The composer of an 1878 book of "Slavonic Dances" who may be more famous for a symphony written in part while he was visiting the United States.

Answer: Antonin Dvorak

- (b) The Alexander Borodin Opera which contains a series of "Polovetsian Dances."

Answer: Prince Igor

- (c) The Gilbert and Sullivan Operetta which ends with the finale "Dance a Cachuca, Fandango, Bolero."

Answer: The Gondoliers, or the King of Barataria

11. Identify the following concerning the hierarchy of government positions that defined the politics of the Roman Republic for ten points each. . .
- (a) The two word Latin phrase for this hierarchy
Answer: Cursus Honorum
 - (b) The Latin name for the entry-level position in the cursus honorum. This position entailed financial duties such as making payments to troops.
Answer: Quaestor
 - (c) The Latin term for a magistrate who commanded a province, acted as judge in military cases, and took the role of a military general in the absence of an appointed consul.
Answer: Praetor
12. Identify the famous couples involving athletes from descriptions, for ten points each. Two names are required for each answer:
- (a) A Yankees slugger and a former Miss California Artichoke Queen, married in 1954
Answer: Joe Dimaggio and Marilyn Monroe or Norma Jean Baker or Norma Jean Mortenson
 - (b) The NHL "Great One" and the actress who played Carla Samson in The Flamingo Kid, married in 1988.
Answer: Wayne Gretsky and Janet Jones
 - (c) A rebellious tennis star and the Princeton graduate star of "The Blue Lagoon," married in 1996
Answer: Andre Agassi and Brooke Shields
13. Few things wreak havoc quite like a general set on destroying a city. Given the city destroyed and the war it was destroyed in, name the leader or general who did the deed for ten points each. . .
- (a) Savannah, US Civil War
Answer: William Techumseh Sherman
 - (b) Tokyo, via firebombing, World War II
Answer: Curtis Lemay, do not accept James Doolittle
 - (c) Athens, the Persian Wars
Answer: Xerxes or Artaxerxes
14. 30-20-10, identify the King from clues.
- 30 The sixth ruler of the Amorite dynasty, Kings defeated by him in battle include Rim-Sin of Larsa and Samsi-Ahad.
 - 20 He had created a powerful empire in the middle east by his 1750 BC death, but much of it was lost under the rule of his son Samsuiluna.
 - 10 He is best known today due to a cuneiform tablet discovered by Jean-Vincent Scheil in 1901 near Susa.
Answer: Hammurabi
15. Identify the following concerning an early corporation for ten points each. . .

- (a) Founded in 1602, this is the first of the main trading companies, eventually boasting of trading centers in Java, Yemen and Persia.

Answer: Dutch East India Company or Vereenigde Oostindische Compagnie or VOC

- (b) Now known as Jakarta, this was the Javanese city where the Dutch East India Company established their headquarters.

Answer: Batavia

- (c) This officer of the Dutch East India company founded the outpost of Cape Town in 1652 as a waystation for ships travelling from Europe to Batavia.

Answer: Jan Van Riebeeck

16. Given a quote from a poem about Isaac Newton, identify the author for fifteen points each. If you need additional information, you'll only get ten points.

15 "Nature, and Nature's Law lay hid in Night. / God said, Let Newton be! And All was Light."

10 Newton is alluded to in this man's *Essay on Man*.

Answer: Alexander Pope

15 Published with most editions of *Principia* is a poem by this man which contains the lines "Thro' the vast void his subject planets run, / Whirl'd in their orbits by the regal sun."

10 In 1705, he determined that a "subject planets" observed in 1531, 1607, and 1682 were the same comet.

Answer: Edmond Halley

17. He was ordered to cook the Salmon of Knowledge for his master Finegas without tasting it himself. For ten points each, name ...

- (a) This Irish hero who nevertheless gained the gift of prophecy when he licked the thumb he burned on the Salmon.

Answer: Fionn mac Cumhail or Finn Maccool

- (b) The King whose life Fionn once saved, a ruler at Tara famed for his possession of a golden cup that could distinguish truth from lies.

Answer: Cormac mac Airt

- (c) The daughter of Cormac's, who chose to elope with Diarmuid rather than agree to the arranged marriage to Fionn. She also shares her name with a pirate queen of Irish legend.

Answer: Grainne

18. Give the oxidation state of the specified atom in the given compound for ten points each.

- (a) Sulfur in sulfuric acid.

Answer: +6

- (b) Oxygen in hydrogen peroxide.

Answer: -1

- (c) Nitrogen in sodium azide.

Answer: -1/3

19. Answer the following about fictional messiahs, for ten points each. . .

- (a) In this 1998 movie the space shuttle named Messiah is sent on a mission to destroy a comet.

Answer: Deep Impact

- (b) This Frank Herbert character is unusual for a fantasy Messiah in that he accidentally starts a jihad in his name.

Answer: Paul Atreides or Muad'dib

- (c) Although everyone knows about Luke, it is ultimately this other member of the Skywalker clan who gains the power to stop the extra-galactic invaders in the New Jedi Order series.

Answer: Jacen Solo

20. Everyone knows about Everest and K2, but – for ten points each– can you name . . .

- (a) The third highest mountain in on Earth, located on the border between India and Nepal.

Answer: Kanchenjunga, Kangchenjunga, Kangchen Dzö-nga,
Kachendzonga, or Kangchanfanga

- (b) The highest mountain in Australia.

Answer: Mount Kosciuszko

- (c) The tallest mountain on Earth, from base to peak.

Answer: Mauna Kea

21. Give the following terms from plasma physics for ten points each. . .

- (a) This man's name is given both to the radius of the circle in which a charged particle rotates in a magnetic field and the equation used to find the energy radiated by that rotating electron.

Answer: Joseph Larmor

- (b) Also known as the Shielding Radius, the "length" named for this man is the distance at which a cloud of ions effectively screens a charged particle moving in a plasma

Answer: Peter Debye

- (c) This acronym, borrowed from statistical mechanics and named for five physicists, names the hierarchy used to correlate distribution functions for n particle systems with distribution functions for $n + 1$ particle systems.

Answer: BBGKY hierarchy

Bogolyubov, Born, Green, Kirkwood and Yvon