

NEW TRIER VARSITY 2008

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Round 1: Johannes Brahms Says Guten Taaaaag

Bonuses

1. (DR) Name these works by Toni Morrison:

[10] This novel is about a former slave and her daughter Denver who are haunted by a murdered child.

ANSWER: **Beloved**

[10] This novel includes the girls First Corinthians and Magdalene, who are sisters of Milkman.

ANSWER: **Song of Solomon**

[10] Much of this novel is set on a Caribbean island, and its main characters are nicknamed Son and Jade.

ANSWER: **Tar Baby**

2. (JG) A running joke in *The Onion's Our Dumb Century* concerned affairs they labeled "the trial of the century". For 10 points each, name some people whose court proceedings often get that label:

[10] These two anarchists were eventually executed in 1927 after being convicted of two murders in Braintree, Massachusetts. They alleged that nationalistic prejudice played a role in their convictions.

ANSWER: Ferdinando Nicola **Sacco and** Bartolomeo **Vanzetti** (both answers required; either order; prompt if just one is given)

[10] Clarence Darrow defended this pair of University of Chicago students on murder charges. They believed that they could get away with "a perfect crime", but a pair of glasses found at the crime scene led to their conviction for the murder of Bobby Franks.

ANSWER: Nathan Freudenthal **Leopold, Jr.** **and** Richard **Loeb** (both answers required; either order; prompt if just one is given)

[10] Tracing the whereabouts of some bills from the ransom money led to the arrest and eventual conviction of Bruno Hauptmann for kidnapping the son of this man. Kidnapping was made a federal crime soon thereafter in a law also named for him, but he is most famous for another accomplishment of oceanic magnitude.

ANSWER: Charles Augustus **Lindbergh**

3. (JG) Answer the following about a composer and his many, many, many symphonies:

[10] This symphony in G major is sometimes known as "mit dem Paukenschlag" and was written in London. Its most common name refers to the many musical jokes in its score, especially a sudden loud chord.

ANSWER: **Surprise** Symphony or Symphony No. **94**

[10] Another one of the London symphonies is this one, whose name comes from its Turkish percussion instruments and fanfares.

ANSWER: **Military** Symphony or Symphony No. **100**

[10] This man wrote a bunch of concertos, too, but is most noted for his symphonies. The Surprise and the Military are among his approximately 106 of them.

ANSWER: Franz Joseph **Haydn**

4. (JG) Bounded to the north by Grand Chaco, their name comes from the Quechua [KECH oo wah] for "flat plains". For 10 points each:

[10] Name this region of South America, very flat lowlands that receive rain about evenly throughout the year and are excellent for agriculture.

ANSWER: **pampas**

[10] The pampas contain these constructions, which consist of overturned stones in the desert. Remnants of a culture from the first millennium CE, they are mostly enormous depictions of animals, and their exact original purpose is unknown.

ANSWER: **Nazca lines**

[10] South of the pampas is this region of Argentina, which includes both the Andes mountains and some plains. It is notable for its cattle and sheep farming.

ANSWER: **Patagonia**

5. (RS) Answer these about eyes, but not you or me.

[10] This poet wrote, "I've seen a dying eye Run round and round a room."

ANSWER: Emily **Dickinson**

[10] Unique to insects, this type of eye is composed of thousands of lenses.

ANSWER: **compound** eye

[10] These mollusks with eight arms and two tentacles have eyeballs that range in size from only a few millimeters across to the size of basketballs.

ANSWER: **squid**

6. (JG) Its second edition was prefaced with a dedicatory letter to Arabella Fermor, and its system of sylphs parodies the mythological gods and goddesses. For 10 points each:

[10] Name this mock-epic in which an unnamed lord perpetrates the title action against Belinda.

ANSWER: "The **Rape of the Lock**"

[10] This man, who also translated some works of Homer and composed "An Essay on Man", wrote "The Rape of the Lock".

ANSWER: Alexander **Pope**

[10] Pope also wrote this satire that tells the story of crowning a new king of Dulness, and which featured Colley Cibber as its protagonist.

ANSWER *The* **Dunciad**

7. (JP) Computational — pencil and paper ready. Simplify the following radical expressions, using simplest radical form for all answers.

1. [10] The square root of 5 over the quantity 4 plus the square root of 7.

2. [10] The cube root of 54, plus the cube root of 16

3. [10] The quantity of 32 times x to the 7th power, close quantity, to the power of one-third, all over the cube root of the quantity $4x$. Thirty seconds.

ANSWER 1: **4** times the square **root** of **5 minus** the square **root** of **35** all **over 9**

ANSWER 2: **5** times the **cube root** of **2**

ANSWER 3: **2** times **x squared**

8. (JG) You've heard these clues about an artist's sister and dentist a million times. Now it's a million and one. For 10 points each:

[10] Name that painting that features a farmer with a pitchfork standing with a woman in front of a house.

ANSWER: **American Gothic**

[10] The artist of *American Gothic*, Grant Wood, lived most of his life in this state.

ANSWER: **Iowa**

[10] Wood is associated with this 1930s American art movement, also a style associated with Thomas Benton and John Steuart Curry.

ANSWER: **regionalism**

9. (AS) Napoleon rose quickly through the ranks of the Republican army despite hailing from Ajaccio, Corsica, an island protectorate of France. For 10 points each, answer the following about Napoleon's early career:

[10] One year after his birth, Corsica had been sold to Louis XV by this Italian state, located at the Northern end of the Ligurian Sea.

ANSWER: **Genoa**

[10] With flamboyant cavalryman Joachim Murat, Napoleon seized artillery pieces from an armory outside of Paris that he used to defeat counter-revolutionary forces that were threatening the National Convention, then meeting at this palace in Paris. The palace was destroyed in 1871 after it had joined with the Louvre during the suppression of the Paris Commune.

ANSWER: **Tuileries** Palace

[10] Napoleon was a key member of 1799's Coup of 18 Brumaire, which overthrew this five-man executive body and established Napoleon as First Consul.

ANSWER: the **Directory**

10. (DR) Computational — pencil and paper ready. Ignore units. Find the following for an equilateral triangle with side length twelve units:

1. [10] The triangle's area,

2. [10] The length of the apothem,

3. [10] The area of a circle circumscribed around the triangle. Thirty seconds.

ANSWER 1: **thirty-six** times the square **root** of **three**

ANSWER 2: **two** times the square **root** of **three**

ANSWER 3: **forty-eight** times **pi**

11. (JG) Name some things about the most extreme form of gravity for 10 points each.

[10] Name these objects that produce that extreme form of gravity, regions in space from which no object can escape once it passes the event horizon, often produced following a supernova.

ANSWER: **black holes**

[10] Black holes may emit this type of energy, causing them to lose mass. Its existence has never been detected, but a British physicist provided a convincing argument for its existence.

ANSWER: **Hawking radiation**

[10] All matter has this quantity associated with it, the radius to which an object would have to be compressed to form a black hole. For example, the Earth's value for it is nine millimeters, so if all the Earth's mass were fit into a sphere of that radius, it would become a black hole.

ANSWER: **Schwarzschild** radius

12. (DR) Identify these terms used in mathematical logic:

[10] If an original implication states that P implies Q , this is the statement that Q implies P .

ANSWER: **converse**

[10] This term beginning with the letter T refers to a significant statement that has been proven.

ANSWER: **theorem**

[10] This two-word Latin phrase is used for arguments that start with the premises that P implies Q and that P is true. It concludes that Q is true.

ANSWER: **modus** ponendo **ponens** (accept modus **ponendo ponens**)

13. (JG) It was originally developed for the Apple II and inspired spinoffs having to do with the Yukon and the Amazon. For 10 points each:

[10] Name this computer game that let the player take the role of a frontiersman, and tragically sometimes featured the death of oxen during river-fording.

ANSWER: The **Oregon Trail**

[10] Another computer game about which you might get nostalgic is this mathematical learning system whose episodes included *In Search of Spot* and *Secret of the Lost City*, and was also available for reading and science.

ANSWER: **Math Blaster!**

[10] This Brøderbund program was first developed for the Mac and provided a painting environment for children. In addition to the usual tools, it had a "wacky brush", a large library of icon stamps, and a fractal-based tree generator. The "Undo Guy" was a notable voiceover effect.

ANSWER: **Kid Pix**

14. (JG) In addition to having some seriously awesome hair, Albert Einstein is noted for a few accomplishments in the field of science. Name these among them for 10 points each:

[10] Einstein completed his work on this theory in 1916, which modified an earlier theory to account for gravity and accelerating frames of reference.

ANSWER: **general relativity** (prompt on partial answer)

[10] An earlier paper explained this effect involving radiation incident on metal. The solution was, essentially, that radiation is quantized.

ANSWER: **photoelectric** effect

[10] In the same year and the same journal that Einstein explained the photoelectric effect, he also explained this random movement of small suspended particles. Dust and pollen are commonly affected by this process named after a Scottish botanist.

ANSWER: **Brownian** motion

15. (DR) Some Cabinet-level posts aren't called secretaries. Identify each of these governmental positions close to the President.

[10] The administrator of this agency that is in charge of keeping our air and water clean is currently Stephen Johnson. He will soon be replaced by Lisa Jackson.

ANSWER: **Environmental Protection Agency**

[10] This is the only traditional cabinet position currently in the cabinet that is not called a secretary. The job is currently held by Michael Mukasey, who probably will be replaced by Eric Holder.

ANSWER: **Attorney General**

[10] This position is not Cabinet-level, but Obama plans to elevate it as such. The position currently is held by Zalmay Khalilzad [kah LEEL zahd], and it is expected that Obama will appoint Susan Rice.

ANSWER: United States **Ambassador** to the **United Nations** (accept clear knowledge equivalents; prompt on **ambassador**)

16. (DR) Computational — pencil and paper ready. Given the coordinates of the vertices of a triangle, find the length of the altitude to the shortest side of the triangle.

1. [10] One comma one, one comma four, and ten comma three.

2. [10] Two comma four, negative six comma three, and zero comma zero.

3. [10] One comma zero, zero comma one, and five comma five. You have thirty seconds.

ANSWER 1: **nine**

ANSWER 2: **three** times the square **root** of **five**

ANSWER 3: **nine** times the square **root** of **two over two** or **nine over** the square **root** of **two** or **four point five** times the square **root** of **two** or equivalent

17. (JG) For 10 points each, give some things related to acid-base chemistry.

[10] This laboratory procedure involves the addition of a base to an acid or an acid to a base. It is often used to determine the concentration or amount of an acid or base.

ANSWER: **titration** (accept word forms)

[10] This type of solution contains a weak acid and its conjugate base or a weak base and its conjugate acid. It is used to moderate the pH.

ANSWER: **buffered** solution

[10] Probably the buffer system most relevant to your life is the one in your blood involving this weak acid. It can be produced by dissolving carbon dioxide in water.

ANSWER: **carbonic** acid or **H₂CO₃**

18. (DT) Identify the following about events within Homer's *Iliad*.

[10] This god of the sea, with some assistance from Apollo, built the walls of Troy.

ANSWER: **Poseidon**

[10] During the fighting, Diomedes was a man possessed, going so far as to wound two different Olympian gods. Name either.

ANSWER: **Ares** or **Aphrodite**

[10] After being forced to give up Chryseis, Agamemnon took this prize away from Achilles, which instigated the conflict between the two leaders.

ANSWER: **Briseis** [bri SEE iss]

19. (RS) Identify the following colorfully-named diseases:

[10] This disease causes elevated body temperatures that can result in blindness and deafness if not treated. It also causes a namesake colorful rash all over the body which peels off a few days later.

ANSWER: **scarlet fever**

[10] This disease spread by mosquitoes caused many deaths during the construction of the Panama Canal. It is named for the jaundice-like symptoms it causes, which turn the skin and eyes a characteristic color.

ANSWER: **yellow fever**

[10] This disease is spread by fleas and rats. It causes spots under the arms, followed by namesake colored phlegm.

ANSWER: black **plague** or **black death** or **bubonic** plague

20. (JG) Some of his works included *The Bourgeois Gentleman*, *Psyche*, and *Doctor of Love*, which wasn't as entertaining as it sounds. For 10 each, name these other plays by Jean-Baptiste Poquelin, also known as Molière.

[10] Censored by Louis the Fourteenth under pressure from the French equivalent of the Religious Right, this play features Orgon and his family the Pernelles, who the title character nearly cons into giving him Mariane as his wife while posing as deeply religious man.

ANSWER: **Tartuffe** *ou l'Imposteur*

[10] This relatively serious work of Molière features Alceste, who is described by the title, and the hypercritical Célimène. Jean-Jacques Rousseau panned it because he favored Alceste's outlook on life.

ANSWER: *The **Misanthrope*** or *Le **Misanthrope** ou l'**Atrabilaire amoureux*** or other plausible translations

[10] The title character of this play is the miserly Argan, who pushes his daughter Angelique into marrying a doctor for his own benefit. By the end of its third and final act, though, Argan lets Angelique marry her true love, Cleante.

ANSWER: *The **Hypochondriac*** or *The **Imaginary Invalid*** or *Le **Malade imaginaire*** or other plausible translations