

NEW TRIER VARSITY 2008

Questions and Editing by Jonah Greenthal and David Reinstein

contributions from Buley, Meade, Price, Server, Sido, Slack, Sorice, Taylor, and Thomas
editing assistance from Angiuli, Cohen, and Gauthier



Round 1: Johannes Brahms Says Guten Taaaaag Tossups

1. (TB) He "make[s] the breathless housewife churn" and also sometimes takes on the "very likeness of a roasted crab". This character describes himself as "that merry wanderer of the night" in his first appearance on stage and entertains both the audience and the other characters throughout. He also gives the closing soliloquy, asking for applause and apologizing in case the play offended anyone. Name this character in *A Midsummer Night's Dream* that goes by two names, the trickster servant of the fairy king Oberon.

ANSWER: **Robin Goodfellow** (accept either or both parts) or **Puck**

2. (TB) One of the characters quotes from First Peter and spends his free time reading his hand-written Bible. The main character has survived scurvy, which is why he is missing some teeth, and goes to an artist to get a number painted on his uniform. Some of the actions described in this novel are collecting firewood, waiting for packages, laying brick, bartering for tobacco, marching in and out of the gate, scrounging extra portions of soup for lunch and dinner, saving portions of bread, and searches by the prison guards. These all occur in very cold conditions in the Soviet Union following the Second World War. Name this novel by Alexander Solzhenitsyn.

ANSWER: **One Day in the Life of Ivan Denisovich** or **Odin den Ivana Denisovicha** (accept any reasonable equivalent, including *A Day...*; recall that rules state any plausible translation of the original language title or any translated title that has been published is acceptable)

3. (JG) He invented his own scheme for musical notation and wrote two operas: *Les Muses Galantes* and *Le Devin du Village*. He thought highly of Newton and Descartes but reserved his highest praise for Francis Bacon, despite often criticizing scientific advancement. His masterwork on education refuted John Locke's, stating that one form of education should be suitable for everyone. That work, *L'Émile*, was the companion to a better-known book of his, which discusses the responsibility an educated man has to society, and elaborates on the author's views on social order. Name this French philosopher, author of *Discourse on Inequality* and *The Social Contract*.

ANSWER: Jean Jacques **Rousseau**

4. (JG) These are responsible for the viscosity of phosphoric acid and the high boiling points of ammonia and hydrofluoric acid, and carbon also experiences this phenomenon with multiple atoms of greater electronegativity. These sometimes come in low-barrier and bifurcated varieties. Exhibition of this property is largely responsible for proteins' secondary and tertiary structures. This interaction applies mostly to fluorine and other very electronegative atoms like oxygen and nitrogen. Name this type of bond (*) that gives water many of its special properties like capillary action and surface tension.

ANSWER: **hydrogen bonds** (accept other word forms of "bonds", and require only **hydrogen** after *)

5. (JG) Its title comes from Gottfried Helnwein's parody of Edward Hopper's painting *Nighthawks*, but there are at least half a dozen other songs of the same name. While the song has been dogged by allegations of plagiarism, Samuel Bayer's unorthodox music video won six major MTV Music Video awards, and the song won the 2006 Grammy for Record of the Year. Its title also can refer to Sunset Boulevard. Identify this triple-platinum song from Green Day's album *American Idiot* describing "walking a lonely road, the only one that I have ever known".

ANSWER: **"Boulevard of Broken Dreams"**

6. (DR) Problems with this organ are sometimes detected using the psoas [SOH uhs] or obdurator sign. Problems arise when the lumen of this organ is obstructed, which is usually caused by lymphoid hyperplasia. Its base is found at McBurney's point and connected to the cecum [SEE cuhm]. When there are problems with it, patients typically resist motion and report pain in the abdominal right lower quadrant. Name this organ known to ancient Egyptians as the worm of the intestine, often removed because it is unnecessary.

ANSWER: vermiform **appendix**

7. (DR) Computational — pencil and paper ready. Ignore units. In a regular hexagon with each side one unit long, some of the diagonals are two units long. Find the length of the other diagonals. Thirty seconds.

ANSWER: the square **root** of **three** units

8. (RS) This man is 465th in line for the British crown. Born a prince of both Denmark and Greece, he became a British citizen in 1939 to serve in the Royal Navy. He rose through the ranks, eventually receiving command of the *HMS Magpie*, a ship stationed in Malta. His naval career was eclipsed, however, by the rise in prominence of his wife, Queen Elizabeth II. Name this man, the Duke of Edinburgh.

ANSWER: Prince **Phillip**, Duke of Edinburgh

9. (MS) Lawrence Morton's analysis of this work uncovered the unacknowledged influence of Juskiewicz's *Melodje ludowe litewskie*, while more explicit direction was provided by folklorist Nicholas Roerich. The proper beginning of this work sees crashing, xylophone-tinged accents play over a repeated chopping string bitonal chord in two-four, which is cut off by the same high-register bassoon theme that plays solo at the very start. Its two parts are "Adoration of the Earth" and "The Sacrifice," at the end of which a young woman dances herself to death. Name this work depicting an imaginative reconstruction of a ritual from pagan Russia, a ballet of Igor Stravinsky that touched off a riot at its premiere.

ANSWER: *Le **Sacre du printemps***, ballet in 2 parts for orchestra or *The **Rite of Spring***

10. (HT) One of his novels begins each chapter with a quote from a calendar written by the title character. That story takes place at Dawson's Landing and involves the identities of two people who switched places when they were a few months old. Another novel is narrated by a man named Hank Morgan, who is often called "The Boss". Though he is best remembered for his novels, he was a prolific writer of short fiction and semi-autobiographical works. Among these is a story about a rigged wager involving an amphibian. Besides writing, he traveled extensively, and his experiences as a steamboat pilot are frequently reflected in his works, even serving as the basis for his pen name. Name this author of *Pudd'nhead Wilson*, *A Connecticut Yankee in King Arthur's Court*, and *The Adventures of Huckleberry Finn* who went by the pen name Mark Twain.

ANSWER: Samuel **Clemens** (accept Mark **Twain** before mentioned)

11. (TB) He was expelled from Dickinson College, but a family friend intervened, allowing him to reenter and graduate in 1809. He served in Congress, but when he was mentioned as a vice-presidential candidate, Andrew Jackson appointed him minister to Russia to get him out of the country. He later served as Polk's secretary of state, but against Polk's wishes he pushed for the annexation of Central America and Cuba. When he received attention as a potential presidential candidate, Pierce appointed him minister to Great Britain. Eventually, however, he did become President, though the tone for his term was set when the Dred Scott decision was announced two days after his inauguration. He is the only president not to have married, and is best known for being unable to avoid the Civil War. Name this President elected in 1856.

ANSWER: James **Buchanan**, Junior

12. (DR) This was the codename used by Americans for a Japanese Enigma machine. With an extra E on the end, it is the name of the English novelist who wrote *Brighton Rock* and *The Quiet American*. In another context, its types may include harlequin, kelly, and shamrock. It was also Rachel's last name on the show *Friends*, and it wasn't easy being this for Kermit the Frog. Identify this word used to represent a political party and a color.

ANSWER: **green**

13. (RS) This phenomenon was documented by Paul Siple and Charles Passel during World War II. Since this value takes air circulation into account, convection caused by body heat has required modification of the original formula. When this value is low, there is a greater heat transfer from the body to the air. Reported as a number, it is generally less than the actual temperature because it does not account for humidity. This effect was originally calculated in terms of the time necessary for a container of water to freeze if left outdoors, and its formula takes into account wind speed and current temperature. Identify this measure of what the temperature actually feels like on exposed skin.

ANSWER: **windchill** effect (accept clear knowledge equivalents for "effect")

14. (DR) Computational — pencil and paper ready. Somebody is repeatedly rolling two standard dice until they win or lose. Find their probability of eventual victory if they win if the sum of the dice is eight, and they lose if the sum of the dice is seven. Thirty seconds.

ANSWER: **five elevenths** or **0.45 repeating**

15. (AS) He said, "What you leave behind is not what is engraved in stone monuments, but what is woven into the lives of others." That statement came after the first year of his country's disastrous 27-year conflict with its neighboring states. At the outset of the war, this statesman and general used defensive walls to keep enemies out, a strategy that backfired in the second year of the war, when dense living conditions allowed a plague to spread and kill him along with one third of the populace. Name this architect of the Delian League, implacable enemy of Sparta, and first citizen of Athens.

ANSWER: **Pericles**

16. (DR) Its quantum operator is negative i times \hbar gradient. For a photon, this quantity is equal to Planck's constant divided by wavelength, which is the same as energy divided by the speed of light. Its derivative with respect to time is equal to net force, a fact which, when combined with Newton's Third Law, shows why this quantity is conserved. The net change in this quantity for an object equals the total impulse upon it. Identify this quantity whose SI unit is kilogram meters per second.

ANSWER: linear **momentum**

17. (CA) Its specifications require that players can run a simple form of Java, and its "Live" ability uses internet connectivity to allow sharing content online. Unlike its competitor, it has three region codes, and support for content protection besides AACS. Introduced around 2006, it can hold 25 gigabytes of data per layer, and won a format war against a competing format after Warner Brothers decided to support this format named after the 405 nanometer laser used to create it. Identify this optical disc and successor to the DVD, which is used by the PlayStation 3.

ANSWER: **Blu-ray** discs

18. (TB) The root of this word comes from the Latin for "proclamation", and it may have entered English from Spanish or Italian. Civil War General Benjamin Butler used this word to refer to escaped or captured slaves. In a broader military context, it refers to any good that a neutral party supplies to parties in the conflict. Give this 10-letter word beginning with "c" that generally refers to any material one is not authorized to possess.

ANSWER: **contraband**

19. (DR) Computational — pencil and paper ready. Find the sine of theta if theta is an acute angle and the cosine of theta equals one-fourth of the quantity the square root of six plus the square root of two. You have thirty seconds.

ANSWER: one-fourth times the quantity the square root of six minus the square root of two (accept equivalents)

20. (JG) His grave was moved in 1909 to Arlington National Cemetery from its original location at the Digges Farm. This was nearly a century after his death. One of his earliest works was a Philadelphia pavilion celebrating the birth of Louis the Seventeenth, and he also designed a fort for Henry Knox before being fired because his designs were too grand. He was injured in the Siege of Savannah, and used a cane from then on. He was noted for rudeness to his clients, but never accepted payment. His other designs included several emblems of the Society of Cincinnati and the Morris House in Philadelphia. Name this French-born son of a painter who is most noted for developing the city plan of Washington, D.C.

ANSWER: Pierre-Charles L'Enfant