

NEW TRIER SCOBOL SOLO 2011

ROUND 10

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1. One novel by this author involves an affair between American diplomat Max Ophuls and Hindu dancer Boonyi Kaul. In that novel, Noman Sher Noman, a native of Kashmir, gets a job as Ophuls' chauffeur to get his revenge. Another novel by this author is about a man who ages twice as fast as most people, Moraes Zogoiby. In addition to *Shalimar the Clown* and *The Moor's Last Sigh*, this author wrote a novel in which the narrator speaks to Padma and has a rivalry with Shiva. Another work by this author is about Gibreel Farishta and Saladin Chamcha and led to the issuance of a fatwa against this author. Name this author of *Midnight's Children* and *The Satanic Verses*.

ANSWER: Salman Rushdie

2. Bruits (broots) detected by stethoscope are the result of this effect in arteries, and the austausch coefficient describes the transfer of momentum by this process. This phenomenon was once thought to be explained by Landau-Hopf theory, and this is measured in Kolmogorov (kohl-moh-GAW-rawf) scales based on the rate of energy dissipation per unit mass in addition to kinematic (kai-nuh-MAA-tik) viscosity. The Navier-Stokes (nay-vee-"ear" stohks) equations cannot be solved exactly for this process, which is characterized by Reynolds numbers above 4000. Observed in ocean currents and around airplane wing-tips, name this type of chaotic fluid motion whose vortices and eddies are often contrasted with laminar flow.

ANSWER: turbulence [accept turbulent flow]

3. An organization affiliated with this group published an English-language magazine called *Inspire*, though its writer was recently killed. Peter Bergen, who interviewed the leader of this organization in 1997, now claims that it is becoming irrelevant. A judge in New York recently ruled that this organization is liable for nine billion dollars, and the new leader of this organization has claimed that the Arab Spring represented the defeat of America. On May 2nd, the then-leader of this organization was killed by US Navy Seals. Ayman al-Zawahiri now leads what organization believed responsible for the 9/11 attacks and formed by Osama bin Laden?

ANSWER: Al-Qaeda [accept The Base]

4. This writer discussed Bruno Bettelheim (BEH-tuhl-haim) in a chapter titled "Progressive Dehumanization: The Comfortable Concentration Camp". In 1997, this writer called for a new political movement, "with new structures of community that open the doors again to real equality of opportunity," in the book *Beyond Gender*. This writer included many personal anecdotes, including reactions to her first book, in *It Changed My Life*. Her first book, noting that women were marrying younger, having more children, and becoming less happy, encouraged women to find meaningful work outside the home. Name this first president of the National Organization for Women who wrote *The Feminine Mystique*.

ANSWER: Betty Goldstein Friedan [accept either or both underlined names]

5. This man was angered by the death of Chief Bowl, which intensified his rivalry with Mirabeau Lamar, and he was found guilty of beating Congressman William Stanbery with a cane. This man was replaced by Edward Clark as Governor when he refused to recognize his state's secession convention and later declared that his state did not belong to the Confederacy. Along with Thomas Rusk, this man was the first US Senator from Texas. Name this hero of the Battle of San Jacinto who was the first elected President of the Republic of Texas.

ANSWER: Samuel Houston

6. One character in this novel tells a story about a person washing his hands in a punch bowl in his native town of Kokovoko. Another character, who is from the Isle of Man, declares, “How the three pines shake!” before making a comment about the sky during a storm which leads to a knife fight when Daggoo takes offense. The blacksmith Perth is given an important job, though his boss insists on welding his own iron. One group of characters, which includes a Quaker from Nantucket who does not want to seek revenge but instead wants to return to his family, is Flask, Stubb, and Starbuck. This novel narrated by Ishmael takes place aboard the *Pequod*. Name this book by Herman Melville about Captain Ahab’s pursuit of a whale.

ANSWER: *Moby-Dick*

7. This British Prime Minister worked to replace Leon Blum with Edouard Daladier (duh-LAH-dee-ay) as the Prime Minister of France. This leader resigned two days after the Narvik Debate, which took place near the end of the Phoney War after the unsuccessful Norway Campaign. This Prime Minister served between Stanley Baldwin and Winston Churchill. He famously used the phrase “peace for our time” after the Munich Agreement, which allowed Germany to control the Sudetenland (soo-DAY-ten-land). Name this leader known for his act of appeasement towards Adolf Hitler.

ANSWER: Arthur Neville Chamberlain

8. This composer wrote one symphonic poem about a girl who falls into a lake and gets into an argument with a water goblin, and another symphonic poem about a misbehaving boy who is killed by a noon witch. He also composed the symphonic poem *The Wood Dove*, and his eighth symphony has a flute bird call theme. This composer’s sixth symphony contains a furiant, and he also wrote eight humoresques, one of which became popular when it was attached to lyrics about flushing toilets. Name this composer whose first symphony is nicknamed *The Bells of Zlonice* (ZLOU-nees) and whose ninth symphony is subtitled *From the New World*.

ANSWER: Antonín Dvořák (d’-VAWR-zhak, but be generous)

9. In 1986, the bursting of one of these features caused a jökulhlaup (YOH-kul-loop) that ruined the town of Yakutat, and rotational movement of these features can create cracks known as bergschrunds. These features form where there is accumulation of firn, and they generate a related marine feature by a process called calving. The parallel movement of two of these features can form a sharp ridge called an arête (uh-RAYT), and Louis Agassiz (aa-gas-see) first suggested long geologic periods dominated by these features after studying their remnants like eskers, drumlins, and moraines. Classified into continental and alpine types, name these large, slow-moving masses of ice that once covered much of the northern hemisphere.

ANSWER: glaciers

10. One type of this visualization method checks for publication bias and is supposed to look like a triangle. In addition to that type, called a “funnel”, another type—which shows random noise when a correct model has been chosen—uses the residual as the dependent variable. This can be used to select a type of smoothing spline or regression curve, and it can also be used to approximate the correlation coefficient before that value is calculated. Identify this graph of data points through which a line of best fit is often drawn.

ANSWER: scatter plot [accept words like “diagram”, “chart”, or “graph” in place of “plot”; prompt on any of those words alone]

11. The drug Isentress (“eye”-SEN-tress) treats infection by these pathogens by targeting the enzyme integrase, and X-SCID has been successfully corrected using one of these as a vector for gene therapy. Peyton Rous discovered one of these pathogens responsible for malignant tumors in chickens, while Robert Gallo found one linked to leukemia and later shared credit for discovering the most widespread one in humans. About 8% of the human genome is derived from these entities, and the drugs Videx and AZT work by inhibiting their crucial enzyme, reverse transcriptase. Exemplified by HIV, name these infectious agents that violate the central dogma of molecular biology by producing DNA from RNA.

ANSWER: retrovirus [prompt on RNA virus]

12. This poet wrote, “I am unmarried, I’m hymnless, I’m Heavenless, headless,” in a work about a woman who moved from Russia to New York City. Another work by this poet begins with him “With a headache self-conscious looking at the full moon,” and asks, “Who killed the pork chops? What price bananas? Are you my Angel?” Another work by this writer is dedicated to Carl Solomon and claims that they are together in Rockland. The second part of that poem repeatedly refers to Moloch (MOL-uhk), and the work begins with the line, “I saw the best minds of my generation destroyed by madness.” Name this poet of “Kaddish”, “A Supermarket in California”, and “Howl”.

ANSWER: Allen Ginsberg

13. One of this man’s older brothers, Dorieus, left his kingdom in disgust and was later killed after another brother was made king. This man became king after that other brother, Cleomenes (klee-AH-muh-neeze), went mad and fled. Before his famous loss, he dismissed many of his troops, keeping his Helots and Thespians in addition to his elite troops. During that battle, a secret path to the rear of this man’s army was explained to his enemy by Onetas (oh-NAY-tahs), Corydallus (kor-ee-DAA-lus), or Ephialtes (ehf-ee-AAL-teez). When the Persians asked for his weapons, he famously replied, “Come and get them!” Name this king who lost the Battle of Thermopylae (ther-MAH-puh-lee) while commanding three hundred Spartans.

ANSWER: Leonidas the First of Sparta

14. This belief system has a ceremony to celebrate three- and five-year-old boys and three- and seven-year-old girls. This belief system contains a mythology in which a hero is born from a peach and joins forces with a dog, a pheasant, and a monkey to free prisoners and gain treasure. Families are used to preserve traditions, which is the first of this system’s Four Affirmations. Some of its sacred sites contain a sacred mirror, sword, and jewel, and its ceremonies often involve ringing a bell followed by two hand claps. Shrines in this system can be entered through vermilion gates called Torii (TOR-ee), and people connect with spirits called kami (KAH-mee). Name this spiritualism often practiced alongside Buddhism in Japan.

ANSWER: Shintoism

15. In one opera by this composer, the main character, who enters singing “Cruda sorte! Amor tiranno!” (CROO-dah SOR-tay ah-MOR tee-RAHN-no) and is loved by Lindoro, is Isabella. Niccolò Paganini (pa-ga-NEE-nee) wrote variations based on the aria “Dal tuo stellato soglio”, which appears in this composer’s *Moses in Egypt*. In addition to that work and *The Italian Girl in Algiers*, this composer based one opera on a play by Friedrich Schiller whose overture ends with an often used cavalry charge gallop. This composer also wrote the aria “Largo al factotum”, which appears in an opera originally titled *Almaviva* (ahl-mah-VEE-vah). Identify this composer of *William Tell* and *The Barber of Seville*.

ANSWER: Gioachino Rossini

16. The effectiveness of dialysis relies on the Donnan form of this concept, which must be modified by the Curtin-Hammett principle when side reactions occur. This concept corresponds to the minimum Gibbs free energy and the presence of pure liquids and solids is ignored for the heterogeneous type. The law of mass action can be used to find this concept's constant, and the effect of a shift in this state can be predicted by Le Chatelier's principle. Existing when the forward and reverse rates of a reaction are the same, name this chemical condition in which the concentrations of reactants and products do not change.

ANSWER: chemical equilibrium

17. This leader sent his cousin Kassa to recruit soldiers away from his rival Balcha while this man held a feast in Balcha's honor. This leader also put down a rebellion by Gugsu Welle fought over who would succeed Zewditu (zoo-DEE-too). This person was the first head of state to speak to the League of Nations, and in a speech to the United Nations he declared that until racism is abolished, dreams of peace, "will remain but a fleeting illusion, to be pursued but never attained." This person was forced into exile in 1936 when Victor Emanuel III declared himself the Emperor of this person's country, after Italy's invasion. Name this former Emperor of Ethiopia.

ANSWER: Emperor Haile Selassie I [prompt on a partial answer; accept Tafari Makonnen; accept Ras Tafari]

18. This character states, "I talk of dreams, which are the children of an idle brain," and he later claims that his friend has been, "shot through the ear with a love-song." This character's friend describes him as, "A gentleman, that loves to hear himself talk," and as this man dies, he tells his friend, "I was hurt under your arm." This man, who is related to Prince Escalus and Count Paris, twice says, "A plague on both your houses!" Name this Shakespeare character who often appears with Benvolio and is a close friend to Romeo.

ANSWER: Mercutio

19. The mapping type of this shape is sometimes called a homotopy (hoh-MAH-toh-pee) co-fiber and is similar to a quotient space. This is the shape of a degenerate hyperboloid, and it can be represented in spherical coordinates by setting the azimuth equal to a constant. The rectangular formula for this shape is $z^2 = x^2 + y^2$, and slices of this shape were famously studied by Apollonius (ap-uh-LOH-nee-us) of Perga (PUR-guh). As with pyramids, this shape has a volume equal to one-third base times height. Identify this shape that has a circular base and a vertex.

ANSWER: right circular cone [or nappe]

20. One work by this artist, which shows two angels reading a scroll on the right, two unfinished figures on the left, and Mary keeping a book away from Baby Jesus in the middle, is known as the *Manchester Madonna*. Another painting by this artist is unfinished in the lower right corner and shows Jesus being carried to his tomb. Another work by this painter shows Saint Sebastian holding arrows and looking at Hell, Saint Catherine with a spiked wheel, and Saint Bartholomew holding his own skin, among many other characters. One group of paintings by this artist has ten circular shields, twelve prophetic figures, and nine scenes from the Book of Genesis, starting with *The Separation of Light and Darkness*. Name this artist of *The Last Judgment* who painted the ceiling of the Sistine Chapel.

ANSWER: Michelangelo (di Lodovico) Buonarroti (Simoni) [accept either underlined name]

TB1. One character in this book attempts to raise his sword-pen against the imposition upon man of laws and conditions appropriate to a mechanical creation. That character's book, which has the same title as this novel, is torn apart while he gets beaten. The protagonist's friends are Pete, Georgie, and Dim, and he has a Post-Corrective Adviser named P.R. Deltoid. While in jail, Alex is subject to the Ludovico Technique, which teaches him to detest violence and, as a side effect, Beethoven. Name this novel written in a combination of English and Russian called Nadsat by Anthony Burgess.

ANSWER: A Clockwork Orange

TB2. This man's first major military job involved delivering messages to encroaching French military commanders with the help of a native friend, Tanacharison [tan-ah-CHAR-ih-son]. The death of Joseph Coulon de Jumonville during an engagement against this man was one of the factors leading to war between England and France. One of his biggest victories was his Siege of Boston, but that was followed by a major loss at the Battle of Long Island. That loss was followed by major victories at Trenton and Yorktown after this man famously led his troops across the Delaware River. Name this first President of the United State.

ANSWER: George Washington

TB3. Which animal...has the largest neuron in the animal kingdom; attacked Captain Nemo's submarine Nautilus in *Twenty Thousand Leagues Under the Sea*; and has rarely-seen giant and colossal species that are a favorite food of sperm whales?

ANSWER: squid