

New Trier Scobol Solo 2014

Round 14



1. This writer explained the difference between “use value” and “exchange value” before developing his theory of socially necessary labor time. This person wrote that “The so-called Christian state is the imperfect state” in essays critical of Bruno Bauer’s book *The Jewish Question*. He described the importance of material conditions to the study of history in his preface to *Critique of Political Economy*, and his beliefs would later be called dialectical materialism. A work this person co-wrote begins by stating that “A specter is haunting Europe.” Name this author of *Das Kapital*, who worked with Friedrich Engels to write *The Communist Manifesto*.

Answer: Karl (Heinrich) Marx

2. In one work by this author, Civil War prisoners rescue Tom Ayrton and discover the identity of Prince Dakkar after escaping in a balloon. Dakkar is known by another name in another novel by this author, which ends with the narrator, Ned Land, and Conseil in Norway after the narrator passes out entering a whirlpool. This author of *The Mysterious Island* wrote a novel in which a bet is made after some Englishmen read about the Great Indian Peninsula Railway while they are at the Reform Club. Name this author who wrote about Phileas Fogg in *Around the World in Eighty Days* and about Captain Nemo in *Twenty Thousand Leagues Under the Sea*.

Answer: Jules (Gabriel) Verne

3. This composer included the line “Your face looks like a dead cat” in his aria “A un dottor della mia sorte”. This composer wrote the aria “Ah, come [KOH-may] mai non senti”, which has much in common with Pearsall’s duet for two cats. This composer used the character Don Magnifico as the stepfather in *La Cenerentola* [CHAY-nay-ren-TOH-lah], his retelling of Cinderella. This composer wrote the aria “Largo al factotum”, in which a character repeats his own name. “March Of The Swiss Soldiers” is in his *William Tell* Overture. Name this composer who wrote about Figaro in *The Barber of Seville*.

Answer: Gioachino [joh-ah-KEE-noh] (Antonio) Rossini

4. Thomas Aldridge Weston designed the differential type of this device, which is similar to a windlass and has a mechanical advantage of at least two. Two masses and one of these devices are used to demonstrate constant acceleration in an Atwood machine. These items allow the tensions on opposite ends of a string to not go in opposite directions, and a block and tackle is made of several of them. In order to simplify calculations, these items are often assumed to be massless and frictionless. Name these simple machines that consist of wheels with strings running over them.

Answer: pulleys [prompt on simple machines]

5. One poem by this author is about a creature that is a creator of “profuse strains of unpremeditated art”. That poem’s speaker asks the creature to teach him “half the gladness that thy brain must know”. Another poem by this poet is addressed to a subject that is “Destroyer and Preserver”; that work, which describes its subject as “thou breath of Autumn’s being,” is “Ode to the West Wind”. This poet also wrote a sonnet about a “shattered visage” with a “wrinkled lip and sneer of cold command”. That poem describes an Egyptian ruler who orders his subjects to “look on” his works “and despair”. Name this poet of “To a Skylark” and “Ozymandias”.

Answer: Percy Bysshe Shelley

6. A polka by this composer that imitates the sounds of its namesake bird is the *Nightingale Polka*. During one of his annual tours of Russia, this composer wrote *Quadrilles on Russian Airs*, which is more commonly known as *Le beau Monde* [l’ boh mawnd]. In one of his operas, Falke gets revenge on Eisenstein because of an embarrassing episode in which Falke was dressed as a bat. One of this composer’s pieces had words added by Joseph Weyl and Franz von Gernerth, changing its setting from Hungary to Vienna. This composer’s father wrote the Radetzky March, and both he and his father wrote many waltzes. Name this composer of *The Blue Danube*.

Answer: Johann Strauss II [prompt on Strauss or Johann Strauss; accept Johann Strauss with any description indicating that he is younger, the son, etc.]

7. One member of this group, Molpadia, fought against the Athenians in the Attic War. As an act of mercy, Molpadia killed their leader Antiope [aan-TY-oh-pee], who had been captured by Theseus. Another member of this group, Melanippe [MEH-luh-NIH-pee], was captured by Heracles. Otrera is sometimes considered the founder of both this group and the Temple of Artemis in Ephesus. Chalcon unsuccessfully tried to prevent Achilles from killing a member of this group, and Achilles soon regretted killing that warrior, Penthesilea [pen-thuh-SEE-lee-uh]. The ninth labor of Heracles was to obtain the girdle of Hippolyta, a queen of this group. Name this group of female warriors.

Answer: Amazons [accept similar answers that include Amazon]

8. This character gives the advice “Go, girl, seek happy nights to happy days.” While traveling with her servant Peter, this character uses the phrase “Scurvy knave” to refer to Mercutio. This character later refers to Tybalt as the best friend she had when delivering the news of his death. This woman is later criticized for saying “There’s no trust, no faith, no honesty in men,” but she is then given a ring to deliver. This character later screams “O lamentable day!” to the Capulets when she believes that Juliet is dead. Name this Shakespeare character who helped the Capulets raise Juliet.

Answer: the Nurse [accept longer answers such as Juliet’s nurse or the nurse from *Romeo and Juliet*]

9. For several decades, the leader of this country claimed it was run by the General People's Committee; and that leader signified that this country was run by the masses by using the term *jamahiriya*. Hasan as-Senussi was about to become the king of this country, but a 1969 revolution overthrew his uncle, King Idris. More recently, the Zintan Brigades has tried to take control of this country following the death of its leader after the Battle of Sirte in 2011. On September 11, 2012, the U.S. diplomatic mission in this country's city of Benghazi was attacked. Name this country, once known as Italian North Africa, that was until recently headed by Muammar Gaddafi.

Answer: (State of) Libya [or (Dawlat) Libya]

10. When a single species dominates this type of ecosystem, it is classified as monodominant. This type of ecosystem can be harmed by the *Scleroderris* [*SKLAIR-oh-DAIR-iss*] canker fungus, which is one of the species that can cause this type of region's dieback. An adjective used to describe a common type of this area means 'falling off' to refer to its seasonal changes. The removal of some organisms in these areas, known as thinning, is used to improve the overall health of these regions. These types of areas can have an understory and a canopy, and the taiga is also known as the "boreal" type of this area. Name these regions where trees play a major role.

Answer: forests [accept more specific answers such as rain forests; accept woods or woodlands]

11. This person was criticized in 2004 for not paying for Kim Hughes' prostate cancer surgery. A column in *The Players' Tribune* stated that this person was the only one who wore black at his annual White Party. In 2009, this person paid over two million dollars to settle a housing discrimination case. This man relocated one of his businesses from San Diego to Los Angeles after seeing Al Davis successfully relocate his business from Oakland. Four days after a recording of this man admonishing V. Stiviano for publicly associating with black people surfaced, Adam Silver banned him for life. Identify this former owner of the Los Angeles Clippers.

Answer: Donald T. Sterling [or Donald Tokowitz]

12. The Scots took advantage of this problem by raiding Durham, and rumors that Jews caused this problem led to massacres in Erfurt and Basel. This problem increased the activity of The Brothers of the Cross, a group of flagellants who were accused of worsening this problem. This problem increased significantly during the Siege of Kaffa when the Mongol army propelled bodies of dead soldiers into the town. The arrival of this problem in Florence played a major role in Giovanni Boccaccio's [*joh-VAHN-nee boh-KAHT-choh'z*] *Decameron*. Name this problem in the middle of the 14th century caused by fleas on rats, which killed about half of Europe's population.

Answer: black plague [or bubonic plague or black death]

13. This artist painted Ludovico Sforza's mistress Cecilia [chay-CHEE-lee-ah] Gallerani wearing a long beaded necklace and holding a furry gray creature to her chest. This artist created two versions of a religious scene in which a young John the Baptist meets Jesus for the first time while traveling with the angel Uriel. This artist of *Lady with an Ermine* and *Virgin of the Rocks* drew a man in two distinct positions centered in a circle, *Vitruvian Man*. This artist's most famous portrait hangs in the Louvre and is of a woman in a black dress with a mysterious smile. Name this artist of the *Mona Lisa*.

Answer: Leonardo (di ser Piero) da Vinci [accept either underlined part]

14. Although it is not sublimation, this process is used by an apparatus that contains a cold finger over a collecting flask, and rotates a flask in a vacuum in order to isolate the solids in the flask. This process is used to remove volatile solvents in a rotovap [ROH-toh-vaap], and the rate at which it occurs is proportional to vapor pressure. When this occurs to water, the surroundings are cooled, which is why perspiration helps cool bodies. Unlike a similar process that occurs at higher temperatures, this process occurs at the surfaces of a substance. Name this process that turns a liquid into a gas and is slower than boiling.

Answer: evaporation [accept word forms; prompt on vaporization or word forms thereof; do not accept "boil(ing)"]

15. The border between this country and a northern neighbor includes the Rhodope Mountains. The Meteora are six monasteries built on sandstone pillars in this nation's Pindus Mountains. The Euripus Strait separates this country from its island of Euboea [yoo-BEE-uh]. This country also contains the Dodecanese islands, which include Rhodes. This country's northern region of Macedonia includes Thessaloniki. This country also contains Zante, Corfu, and Ithaca as part of its Ionian Islands. The mainland of this nation, located between the Ionian Sea and Aegean Sea, includes the Erechtheion [uh-REK-thee-ahn] and Parthenon on top of the Acropolis. Name this country whose capital is Athens.

Answer: Greece [or Hellenic Republic or Hellas]

16. This author wrote a story that takes place in the The HappyLife Home, which projects scenes from Africa. In one novel by this author, the protagonist reads the poem "Dover Beach" and Clara Phelps cries. That occurs soon after the protagonist receives an ear-piece from Faber. This author's story "The Veldt" is in a collection framed by a man with animated tattoos, *The Illustrated Man*. Ylla dreams about astronauts arriving from Earth after the events in "Rocket Summer" in this author's *Martian Chronicles*. Name this science fiction writer who described a Mechanical Hound and firemen who burn books in *Fahrenheit 451*.

Answer: Ray Bradbury

17. This organ is affected in a disorder caused by faulty production of type IV collagen, resulting in a basket-weave appearance called Alport syndrome. This organ uses a system similar to countercurrent exchange called a countercurrent multiplier. The permeability of one structure in this organ is increased by the insertion of aquaporins due to the effect of vasopressin, also called antidiuretic hormone. In this organ, a tuft of capillaries surrounded by the Bowman's capsule is called the glomerulus [gloh-MAIR-yoo-luss]. The basic functional units of this organ are the nephrons [NEF-rahnz]. Identify this pair of organs that filter blood, producing urine.

Answer: kidneys [accept renal glands]

18. Georgy Zhukov earned his first Hero of the Soviet Union medal for his use of the BT-5 and BT-7 types of this weapon at the Battle of Khalkhin Gol against Japan in 1939. More than 6,000 of these devices were used at the Battle of Kursk, history's single largest deployment of this weapon. Their practicality was improved by reducing pressure on the ground with the development of the caterpillar track system. George Patton and Erwin [AIR-vin] Rommel both pioneered strategy for using this device. Identify this mobile weapon, noted for rolling on a continuous track, often with a rear mounted engine and a single rotating turret on top.

Answer: tanks [prompt on mechanized cavalry; do not prompt on "cavalry"]

19. One way to define equality for two of these things is the axiom of extensionality. Operations on these entities include the Cartesian product, which combines these entities to make one of these comprising ordered pairs. A notation used to "build" these entities uses a vertical line or colon that is read as "such that". The number of elements in one of these entities is its cardinality. Relationships between these entities can be shown with a Venn diagram, and their operations include union and intersection. Name these collections whose elements are listed between curly braces.

Answer: sets

20. This event is the subject of the documentary *The Day the War Came Home*. Its aftermath included the Hard Hat Riot four days later, and the Scranton Commission determined that this event was unjustified. One photo of this event shot by John Filo shows 14-year-old runaway Mary Ann Vecchio screaming over the dead body of Jeffrey Miller. This event, a reaction to protests of the Cambodian Incursion, is the subject of the Crosby, Stills, Nash & Young song "Ohio". Name this killing by the Ohio National Guard of four students at a college during a protest of the Vietnam War.

Answer: Kent State Massacre [accept similar answers that mention Kent State]

- TB21. Two of these entities, represented by the Greek letters delta and alpha, are used to find ratios of bifurcation intervals in chaos theory and are named for Feigenbaum. Another one of these entities is found by taking the integral of the difference between the reciprocal of the floor function of x and the reciprocal of x . That entity, used to evaluate the derivative of the gamma function, is represented by a gamma and named for Euler and Mascheroni [mas-kair-OH-nee]. The example named for Boltzmann is represented by a lower case k. This term is used to relate the square root of 2 to Pythagoras, and pi to Archimedes. Give this term for numerical values that never change.

Answer: mathematical constant [accept transcendental number before “the square root of 2”; prompt on number or value or irrational number]

- TB22. One of these events did not happen because Agemo the chameleon matched the color of Olokun’s cloth, causing her to quit a weaving contest. One of these events did happen when Tistar took the forms of a man, a horse, and a bull. Jews believe that people were forbidden from eating living animals after this event, which was experienced by a 600-year-old man. In the epic of Gilgamesh, the story of this event focuses on Utnapishtim, who ends up on Mount Nisir. This event in the Bible was experienced by Japheth, Shem, and Ham, and it was ended when a dove brought an olive branch. Name this event in the Book of Genesis that was survived by Noah on his ark.

Answer: (great) flood(s) [accept deluges; prompt on answers referring to the destruction of the world]

- TB23. Identify the body part that is being dissected by Dr. Tulp in Rembrandt’s *The Anatomy Lesson*, is doubly missing from the *Venus de Milo*, and is the human upper limb running from shoulder to wrist.

Answer: arms [or forearms]