2016 OAC Regionals – Round 0

Questions written by Ike Jose and Steven Wellstead

Category Round

American Literature: Identify the following poets who wrote about mythology.

<u>Team A</u>: Norse lore inspired this author's poem "The Skeleton in Armor." He also wrote the collection *Tales of a Wayside Inn* and the epic poem *The Song of Hiawatha*.

ANSWER: Henry Wadsworth Longfellow

<u>Team B</u>: In this author's most famous poem, he repeatedly invokes the name of "Moloch," a demon used to describe filth. In that 1955 poem by him, he states "I saw the best minds of my generation destroyed by madness."

ANSWER: Irwin Allen Ginsberg

<u>Tossup</u>: A mythological woman titles one poem by this author which begins "Stasis in darkness. Then the substanceless blue pour of tor and distances." In another poem by this author, the speaker compares her skin to a "sort of walking miracle" that is "bright as a Nazi lampshade." This author of the poems "Ariel" and "Lady Lazarus" wrote another poem which compares the title figure to a "vampire" who drank the speaker's blood for a year. At the end of that poem by this author, the speaker tells the title family member "you bastard, I'm through." Name this female author of the poem "Daddy" and one-time wife of Ted Hughes.

ANSWER: Sylvia Plath

Mathematics: Pencil and paper ready. Questions in this round will deal with the discriminant in quadratic equations. You will have 30 seconds for the team questions.

<u>Team B</u>: Give the discriminant of the following quadratic equation: $7x^2 + 11x + 4$ ("seven x squared, plus eleven x, plus four").

ANSWER: 9 or nine

<u>Team A</u>: Give the discriminant of the following quadratic equation: $8x^2 + 15x + 6$ ("eight x squared, plus fifteen x, plus six").

ANSWER: 33 or thirty-three

Tossup: The shape of these structures are determined by their "generalized" discriminant, b^2 - 4ac ("B squared, minus four A C"), when using variables of their characteristic equation: $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$ ("A X squared, plus B X Y, plus C Y squared, plus D X, plus E Y, plus F, equals zero"). Jakob Steiner names a group of these shapes that are defined over the projective plane. These shapes, which are the subject of a treatise by Apollonius (APP-uh-loh-NEE-us) of Perga, are defined by a locus of points from the focus, as well as a fixed line called a directrix. The hyperbola, parabola, ellipse, and circles are examples of these shapes. Name these shapes which are sometimes called "sections."

ANSWER: conic sections [accept Steiner conic]

World History: Name these western hemisphere explorers.

Team A: This Spaniard was the first known European explorer to site the Mississippi River.

ANSWER: Hernando de Soto

<u>Team B</u>: The northern reaches of the Mississippi River were explored by this 17th century Jesuit missionary who was accompanied on his journey by Louis Joliet.

ANSWER: Father Jacques **Marquette** [accept Pere **Marquette**]

<u>Tossup</u>: The diary of the first voyage of this explorer was edited and published over a century after the fact by William Wharton. This man discovered Possession Island in the Torres (TOR-ez) Strait during a voyage that was organized to view a transit of Venus from Tahiti. On his second voyage, he disproved the existence of the hypothetical southern continent Terra Australis while sailing aboard the *Resolution*. On his third and final voyage, he discovered and named the Sandwich Islands. The HMS *Endeavor* was most notably captained by what British explorer who was killed in 1779 in Hawaii?

ANSWER: Captain James Cook

Fine Arts: Name these paintings.

<u>Team B</u>: A view from an asylum in Saint-Remy-de-Provence (san ray-mee dur proh-vahnss) is the subject of this 1889 painting, whose left side is dominated by a cypress tree that appears in the foreground.

ANSWER: The Starry Night

<u>Team A</u>: In this 1793 painting, the lone figure holds a quill pen in one hand, while his other hand holds a letter that features the name Charlotte Corday.

ANSWER: The **Death of Marat** [or La **Mort de Marat** or **Marat Assassine**]

<u>Tossup</u>: One version of this painting whose authenticity is questioned is named after the English town of Isleworth. This painting may have been trimmed to remove columns that were visible on the extreme left and rights edges. The best known title of this painting was coined by art historian Giorgio Vasari (JOR-jo vuh-ZAR-ee). For a work entitled *L.H.O.O.Q.*, Marcel Duchamp (mar-SEL doo-SHAHMP) added facial hair to a depiction of this painting. In December 2015, it was announced that there was a hidden portrait under this work, which is currently protected by bulletproof glass as the most-visited painting in the Louvre (loov). Name this portrait of a smiling Italian woman by Leonardo da Vinci.

ANSWER: <u>Mona Lisa</u> [or La <u>Gioconda</u> (lah jyoh-KOHN-dah) or La <u>Joconde</u> or Portrait of <u>Lisa Gherardini</u>, wife of Francesco del Giocondo]

Life Science: Answer the following about extinct animals.

Team A: A long beak is theorized to have been part of these extinct dinosaurs, whose name means "winged finger."

ANSWER: <u>pterodactyl</u>s (teh-ruh-DACK-till) [or <u>pterodactylus</u> antiquus; do not accept "pterosaur(s)" or "pteranodon(s)"]

<u>Team B</u>: This extinct dinosaur, which Othniel Marsh theorized had a "second brain," possessed large plates that covered its body, leading to a name meaning "covered lizard."

ANSWER: stegosaurus

<u>Tossup</u>: One species of this animal, *Lipotes vexillifer* (LIP-oh-teez vex-ILL-ih-ferr), possibly became extinct in the 21st century. One type of this animal in the *Iniidae* (in-"EYE"-uh-dee) family dwells in the Amazon River. Dr. Philibert Commerson gives his name to a type of these animals that resembles pandas and dwells near Tierra del Fuego (tee-"AIR"-uh dell foo-AY-goh). The *baiji* ("BYE"-jee) species of this animal used to inhabit the Yangtze (yang-see) River but is now thought to have become extinct. This cetacean (suh-TAY-shun) animal uses echo location clicks to communicate. Name this intelligent marine mammal, one type of which is the bottlenose.

ANSWER: <u>dolphin</u>s [or <u>Delphidae</u>; accept baiji <u>dolphin</u>s or Chinese river <u>dolphin</u>s or Yangtze River <u>dolphin</u>s or whitefin <u>dolphin</u>s or Amazon River <u>dolphin</u>s or Commerson's <u>dolphin</u>s or bottlenose <u>dolphin</u>s]

World Literature: Name these poets who wrote works about Oliver Cromwell.

<u>Team B</u>: This poet's *Defensio Secunda* discusses the nature of Oliver Cromwell's politics. This author's "Lycidas" is an elegy for Edward King.

ANSWER: John Milton

<u>Team A</u>: This man stated that Cromwell could "not cease in the inglorious arts of peace" in a "Horatian Ode" depicting his "Return from Ireland." This poet is better known for authoring "To His Coy Mistress."

ANSWER: Andrew Marvell

<u>Tossup</u>: In one poem, this author wrote that "Cromwell is ready / James calls for fires in Golgonooza." The speaker of another poem by this author hears "the youthful Harlots curse" while walking through "each charter'd street / near where the charter'd Thames (temz) does flow." In a third poem by this author, the speaker references a time "when the stars threw down their spears." This author of *Milton: A Poem in Two Books* and "London" is better known for a poem that takes place "in the forests of the night" and asks the question "what immortal hand could frame thy fearful symmetry" to an animal that is "burning bright." Name this author whose collection *Songs of Experience* contains the poem "The Tyger."

ANSWER: William Blake

U.S. Government/Economics: Name these Cabinet positions.

<u>Team A</u>: Of all the Cabinet positions that existed since Washington's presidency, this position is the latest in the presidential line of succession. Men who have held this position include Alberto Gonzales and Elliot Richardson.

ANSWER: Attorney General [prompt on "A.G."]

<u>Team B</u>: 1979 saw the establishment of this Cabinet position, which has been held by such individuals as Roderick Paige and Margaret Spellings.

ANSWER: Secretary of Education

<u>Tossup</u>: One holder of this Cabinet position was the subject of the best known photograph by Cecil Stoughton. One man to hold this position took his oath of office while recovering from an illness in Cuba. Another man to hold this position was the only Cabinet member in history to have significant Native American ancestry. In addition to William R. King and Charles Curtis, it was held by a man who described this position as "not worth a bucket of warm spit." John Nance Garner was one holder of this position, which casts all tie-breaking votes in the Senate. Name this Cabinet position currently held by Joe Biden (BYE-din).

ANSWER: <u>Vice President</u> [accept <u>V.P.</u> or <u>veep</u>]

Physical Science: Pencil and paper ready. Answers to this set of questions will be numbers. You will have 20 seconds for the team questions.

 $\underline{\text{Team B}}$: In a compound that has the formula $C_{20}H_{45}O_{15}$ ("C twenty, H forty-five, O fifteen"), the subscripts of the compound's empirical formula sum to this number.

ANSWER: 16 or sixteen

 $\underline{\text{Team A}}$: In a compound that has the formula $C_{42}H_{91}O_{28}$ ("C forty-two, H ninety-one, O twenty-eight"), the subscripts of the compound's empirical formula sum to this number.

ANSWER: 23 or twenty-three

<u>Tossup</u>: On an NFPA ("N-F-P-A") diagram, gasoline has this value for the red region, indicating its flammability. A molecule of gluta thione (GLOO-tuh-"THIGH"-ohn) is comprised of this many amino acids. Melezitose and raffinose are saccharides comprised of this many monomers, since they have two glyco sylitic bonds. Along with eight atoms of hydrogen, there are this number of carbon atoms in a molecule of propane. Most body fat is comprised of molecules that with this many glycerides. This is the pH ("P-H") of a substance that has a pOH ("P-O-H") of 11. Give this atomic number of lithium and the total number of atoms in a molecule of water.

ANSWER: 3 or three

World Geography: Name the following related to the geography of Europe.

<u>Team A</u>: The Church of the Savior on Spilled Blood is a point of interest in this city that is situated at the mouth of the Neva River.

ANSWER: Saint Petersburg [or Sankt-Peterburg]

<u>Team B</u>: Heraklion (huh-RAK-lee-on) is the most populous city on this island, which contains the notable archaeological site of Knossos (NAW-suss).

ANSWER: Crete [or Kriti or Krete]

<u>Tossup</u>: The coastline of this country borders the Gulf of Saint-Malo, which is just west of the Cotentin Peninsula. The south part of this nation contains an elevated region known as Massif Central. The Azure Coast is controlled by this country, which has part of its eastern border run through the Jura Mountains. This country contains prehistoric cave art within the Lascaux (lah-SKOH) Caves. The Montmartre (mon-MAR-truh) district is in this nation's most populous city, which is upstream of Le Havre (luh hahv) and Rouen (roo-awn). Name this nation in which the Seine (sen) River flows through its capital of Paris.

ANSWER: France [or French Republic or Republique francaise]

U.S. History: Name these organizations.

<u>Team B</u>: The 1925 murder conviction of member D.C. Stephenson contributed to the decline in the second iteration of this group, whose first leader was Civil War veteran Nathan Bedford Forrest.

ANSWER: **Ku Klux Klan** or **KKK** [prompt on "Klan"]

<u>Team A</u>: In 1886 Samuel Gompers became the first president of this labor union, which was under the leadership of George Meany when it merged with a rival union and ceased to exist in 1955.

ANSWER: <u>AFL</u> or <u>American Federation of Labor</u> [do not accept or prompt on "AFL-CIO" or "American Federation of Labor and Congress of Industrial Organizations"]

<u>Tossup</u>: This organization was the subject of a lawsuit by David Watson during his tenure as Ohio Attorney General. A *Puck* magazine illustration entitled *Next!* depicts this organization as an octopus reaching for the White House. Its New Jersey branch was the subject of a 1911 Supreme Court case which led to this organization being broken up into 34 different companies. In 1904, *McClure's* magazine published a "history of" this company written by muckraker Ida Tarbell. Name this petroleum company founded in 1870 by John D. Rockefeller ("ROCK"-uh-"fell"-er).

ANSWER: Standard Oil Company and Trust

Alphabet Round - Letter V

- 1. From the Latin for "evening," this term is used to identify evening services for many Christian denominations.
- 2. Government that ruled part of France as collaborators of the Nazis during World War II.
- 3. This percussion instrument, which looks like a xylophone, is named for the pulsating effect its various valves produce. The jazz musician Lionel Hampton was renowned for playing it.
- 4. In fluid mechanics, this property is defined as the ability for a fluid to resist flow.
- 5. This author wrote historical novels about Aaron Burr and Abraham Lincoln, called *Burr* and *Lincoln*, which comprise part of his *Narratives of Empire* series.
- 6. (TWO WORD ANSWER) Caribbean archipelago which contains the U.S.-owned islands of St. John, St. Thomas, and St. Croix.
- 7. Term used to describe the Dutch emigrants who settled the interior of present-day South Africa during the Great Trek of the 1830s and 1840s.
- 8. (TWO WORD OR HYPHENATED ANSWER) This herpes virus is responsible for causing chickenpox and shingles.
- 9. 16th century Venetian painter of *The Wedding at Cana*.
- 10. "Do Not Go Gentle into that Good Night" is an example of one of these 19-line poems.
- 11. Ancient Germanic people who sacked Rome in AD 410 under the leadership of Alaric.
- 12. In this branch of ethics in philosophy, which was the subject of a book by Alasdair MacIntyre, moral character is emphasized, as opposed to "rules" or "consequences."
- 13. This term describes programs that are announced but never made nor actually officially cancelled. The Xenix operating system was considered one of these programs.
- 14. (**TWO WORD ANSWER**) Peruvian author who fictionalized the life of reformer Roger Casement in *The Dream of the Celt*. He is better known for authoring *Aunt Julia and the Scriptwriter*.
- 15. This instrument, which is tuned a fifth lower than the violin, appears twice in a string quintet.
- 16. U.S. legislation that was adopted in 1919 to carry out the 18th Amendment that established Prohibition.
- 17. Though he was originally the head god of the Vedic Pantheon, this deity is primarily remembered as the Indian god of the Ocean.
- 18. Evaporation and boiling are the two types of this physical process of changing a substance from a liquid into a gas.
- 19. In criminal law, "guilty" and "not guilty" are the two most common outcomes of these findings. A trial usually ends with a jury foreperson reading one of these.
- 20. **(TWO WORD ANSWER)** A panorama of life in 19th century Britain is presented in this "novel without a hero" by William Thackeray.

<u>Alphabet Round – Letter V Answers</u>

1. **vesper**s 2. <u>Vichy</u> (vee-shee) [accept <u>Vichy</u> France or <u>Vichy</u> regime or <u>Vichy</u> government] 3. **vibraphone** [or **vibraharp** or **vibes**] 4. viscosity or viscous 5. Gore **Vidal** 6. Virgin Islands (TWO WORD ANSWER) 7. Voortrekkers 8. varicella zoster virus [or varicella-zoster virus] (TWO WORD OR HYPHENATED ANSWER) 9. Paolo **Veronese** 10. villanelle 11. Visigoths 12. Virtue ethics 13. vaporware or vapourware 14. Mario Vargas Llosa (VAR-guss YOH-suh) [or Jorge Mario Pedro Vargas Llosa] (TWO WORD ANSWER) 15. **viola** 16. Volstead Act 17. **Varuna** or **Varun** [do not accept "Varuni"] 18. **vaporization** [accept **vaporize**d]

19. **verdict**s

20. Vanity Fair: A Novel without a Hero (TWO WORD ANSWER)

Lightning Round

1. A signaling pathway named for these animals uses the IHH ("I-H-H") and DHH ("D-H-H") proteins, as well as a third protein that affects the formation of the midline structures of the brain in embryos and the placement of limbs. Like pigs, mongooses, and honey badgers, these relatives of the shrews have a mutation that renders snake venom inert. These nocturnal animals have stiff hairs made of keratin that are not poisonous, unlike the porcupine. Name these mammals known for their thick spines.

ANSWER: **hedgehog**s

- 2. In one novel by this author, Charity Royall becomes infatuated with the visiting architect Lucius Harney. This author of *Summer* wrote a novel in which an engineer narrates the story of a man in Starkfield who makes a suicide pact with Mattie Silver. At the end of that novel by this author, Zeena takes care of her title husband, who is bedridden after crashing into a tree while sledding. Name this American female author of *Ethan Frome* (frohm). ANSWER: Edith **Wharton** [or Edith Newbold **Jones**]
- 3. Chogha Zanbil (CHOH-guh ZAN-beel) is a surviving one of these structures that was unusually built by the Elamite kingdom. Although almost nothing of it remains, *Etemenanki* (eh-teh-meh-NAN-kee) is one of these structures dedicated to the god Marduk (MAR-"duke"). Herodotus records that a shrine dedicated to a god appeared on the top of these structures, which apparently resembled step pyramids. Name these religious structures used in ancient Mesopotamia. ANSWER: <u>ziggurat</u>s (ZIH-guh-raht)
- 4. Two answers required. This duo utilized a motto that translates as "one is equal to the other." This duo's defeat of Boabdil (boh-ahb-DEEL) resulted in the end of the Nasrid dynasty. One organization established by this duo was first led by Tomas de Torquemada (toh-MAHSS day TOR-kay-MAH-dah). This duo required the expulsion of Jews by issuing the Alhambra Decree. Their youngest daughter, Catherine, became the first wife of Henry VIII ("the 8th"). Name these married (*) "Catholic Monarchs" who founded the Spanish Inquisition and financed the first three expeditions of Christopher Columbus.

ANSWER: <u>Ferdinand</u> II of Aragon and <u>Isabella</u> I of Castile [or <u>Ferdinand</u> the Catholic or <u>Ferdinand</u> V ("the 5th") of Castile or <u>Ferdinand</u> III of Naples and <u>Isabel</u> I of Castile; accept answers in either order; prompt on "Catholic Monarchs" before (*); do not prompt on partial answers]

- 5. The finale to Gustav Holst's *Second Suite in F* includes one of these pieces inspired by the dargason. Ralph (rayf) Vaughan Williams wrote one "on Greensleeves" and another "on a Theme by Thomas Tallis." As its name indicates, this type of composition is based on a composer's whims. A film with this name notably featured the Paul Dukas symphonic poem entitled "The Sorcerer's Apprentice." Give this word identifying a 1940 Walt Disney film starring Mickey Mouse. ANSWER: <u>fantasia</u> [or <u>fantasy</u>; accept <u>Fantasia on Greensleeves</u> or <u>Fantasia on a Theme by Thomas Tallis</u> or <u>Tallis</u> Fantasia]
- 6. A pair of Villarceau (vee-lar-soh) circles are generated by cutting these shapes at an oblique angle. These shapes can be generated by taking a square piece of paper and joining the opposite ends without any twists. In calculus, these shapes are also generated by taking a circle and rotating it around an axis when it is at a sufficient distance from the center. The genus of these shapes is determined by the number of holes in them. Name these geometrical shapes which resemble doughnuts.

ANSWER: ring torus [or ring tori]

7. The Overcreek Dam was one of eighteen dams in this state that were breached during October 2015 flooding. A video recorded in this state shows a police officer shooting Walter Scott in the back before appearing to plant a taser. State Senator Clementa Pinckney was one of nine people shot to death at a church prayer service in this state by Dylan Roof. In July 2015, the Confederate flag at this state's Capitol building was permanently removed with the approval of Governor Nikki Haley. Name this state whose capital is Columbia.

ANSWER: South Carolina

- 8. This poem's thirteenth section, the *Book of Instructions*, includes a section in which a character recites the 1,000 names of the "Preserver." In a section of this poem called the *Book of the Assembly Hall*, a character and his brothers are forced into an exile after losing a dice game. This work, sometimes called the longest poem ever written, is attributed to Vyasa and depicts the Kurukshetra War. Name this poem, which is an ancient Sanskrit epic much like the similar *Ramayana*. ANSWER: *Mahabharata* (muh-huh-BAH-ruh-tuh) [or *Mahabharatam*]
- 9. This man compiled eight separate sequential images into his painting *Suicide (Purple Jumping Man)*. In one painting, he depicted 112 of the title containers stacked seven rows high. "The Factory" was the name of the studio utilized by this artist, who created a painting that depicts 50 images of the face of a blonde actress surnamed Monroe. *Green Coca-Cola Bottles* and *Marilyn Diptych* (DIP-tik) are two paintings by what pop artist perhaps best known for painting *Campbell's Soup Cans*?

ANSWER: Andy Warhol [or Andrew Warhola]

10. This principle was integrated into the "Big Sister" policy that was espoused by James G. Blaine. This policy was the subject of the Clark Memorandum. It was invoked during a border dispute involving Venezuela and British Guiana in 1895. U.S. intervention in Latin America was justified by this policy's Roosevelt Corollary. European nations should not intervene in American affairs according to what 1823 "doctrine" issued by the fifth U.S. president? ANSWER: **Monroe Doctrine** [accept **Monroe** by itself after (*)]

11. This compound's pKa ("P-K-A") can be reduced from around 4.8 to 0 by replacing 3 of its 4 hydrogens with fluorine atoms. When devoid of water, this compound is referred to as "glacial." Twice oxidizing ethanol produces this carboxylic acid, which is one carbon longer than formic acid. (*) CH₃COOH ("C H three C O O H") is the formula for what compound that is an acerbic (uh-SER-bik) acid found in vinegar.

ANSWER: <u>acetic acid</u> [or <u>ethanoic acid</u>; accept <u>CH₃COOH</u> before (*)]

- 12. One dam on this river holds back Kainji (KANE-jee) Lake. Macina (mah-SEE-nuh) is the name of an inland delta on this river, which is the longest river whose source is in the Fouta Djallon (FOO-tuh juh-LOHN) highlands region. The Benue (BAYN-way) River is the largest tributary of this waterway, which ends in a delta at the Bight of Bonny. The source of this river is near the headwaters of the Senegal River in the nation of Guinea (GIH-nee). Name this third longest African river that flows through Niamey (nee-AH-may), which is the capital of its namesake nation.

 ANSWER: Niger (nee-ZHAIR or NYE-jur) River [or fleuve Niger]
- 13. A song by John Dowland provided the title to this author's novel about Jason Taverner, a famous singer who awakens one day and finds that no one knows his identity. A fictional book called *The Grasshopper Lies Heavy* figures into a book by this writer in which Juliana meets up with the novelist Hawthorne Abendsen to discover if Germany and Japan truly conquered the U.S. Name this sci-fi novelist who wrote *Flow My Tears*, *The Policeman Said* and *The Man in the High*

ANSWER: Philip Kindred Dick

- 14. Just prior to its formation, this country was the site of the Deir Yassin ("dare" yah-SEEN) massacre. This nation's military force was formed primarily from an organization called Haganah (hah-gah-NAH). This country carried out Operation Wrath of God to avenge the murder of eleven of its athletes in 1972. The Balfour Declaration supported the formation of this country, whose Kadima political party was one led by prime minister Ehud Olmert (eh-HOUD OHLmehrt). Benjamin Netanyahu (ben-yah-MEEN net-ann-YAH-hoo) is the current prime minister of what Jewish nation? ANSWER: State of Israel [or Medinat Yisra'el]
- 15. This event was depicted in a group of photographs called "The Magnificent Eleven" that were taken by photojournalist Robert Capa. Robert Sargent took a photograph of this event entitled *Taxis to Hell and Back Into the Jaws of Death*; that photo was taken from a Higgins boat and depicts soldiers wading through water as part of Operation (*) Overlord, in which Americans targeted Utah and Omaha Beaches. Name this June 6th, 1944 Allied assault on the French coast of (**) Normandy.

ANSWER: <u>D-Day</u> [or Operation <u>Neptune</u>; accept Operation <u>Overlord</u> before (*); accept <u>Normandy landings</u> or similar answers including <u>Normandy</u> and the notion of an <u>attack</u> before (*)]

16. In quantum mechanics, this quantity is canonically conjugate to position. Planck's constant divided by this quantity gives the de Broglie wavelength of a particle. This quantity squared, divided by twice the mass, gives kinetic energy. According to Newton's second law, the time derivative of this quantity is equal to the force. A change in this quantity is known as impulse. Name this quantity equal to an object's mass times its velocity.

ANSWER: linear **momentum** [do not accept or prompt on "angular momentum"]

17. This character was inspired by, and shares his species with, Varney, who is the hero of a popular "penny dreadful." He uses the fake name Count De Ville so that he can have fifty boxes of "mould" put on the ship *Demeter*. Wafers of bread are placed in those boxes to render his powers useless. Quincey Morris and Jonathan Harker ultimately kill this character, who is hunted by Abraham Van Helsing. Bram Stoker created what Transylvanian count who is a bloodsucking vampire?

ANSWER: Dracula

18. In *Principles of Political Economy*, John Stuart Mill discussed the "natural" form of this phenomenon, which may lead to market failure. Baxter's law describes how a "regulated" type of this situation can dominate a non-regulated market. Government-granted ones are often used for utilities, public defense, or other common goods. A trademark is another type of this situation created by the government, since only one agent can use a particular symbol. Name this business situation in which there is only one seller of a product.

ANSWER: <u>monopoly</u> or <u>monopolies</u> [accept <u>natural monopoly</u> or <u>regulated monopoly</u> or <u>government-granted monopoly</u> or plural forms]

19. One siege during this conflict included the Battle of the Great Redan. Photographer Roger Fenton documented this conflict, in which the Earl of Cardigan led a notable, ill-fated assault ordered by Lord Raglan. Florence Nightingale served as a nurse during this war, which included a nearly eleven month siege of Sevastopol (suh-VASS-tuh-pohl). This war's Battle of Balaclava included the "Charge of the Light Brigade." Name this 1853 to 1856 war fought on a namesake Black Sea peninsula.

ANSWER: Crimean War

20. This deity slept with his own granddaughter, Alope (AL-oh-pee), who was fathered by this god's son, Cercyon ("SIR-see-on"). He slept with Aethra (ay-EE-thruh) on the same night as King Aegeus (ay-JEE-uss) to become the partial father of Theseus. Medusa was transformed into a Gorgon after being raped by this deity in a temple of Athena, who beat this god in a contest to become the patron of Athens. This god's messenger was his own son, the merman Triton. Hades (HAY-deez) and Zeus were the brothers of what trident-carrying Greek god of the sea?

ANSWER: **Poseidon** (poh-SYE-dun) [do not accept or prompt on "Neptune"]