

1. In one of this composer's operas, the hero is advised by Finn to cut off a dwarf's magic beard and is waylaid at the palace of Naina. That hero of an opera by this man is briefly impeded by Farlaf, who, like the poet Ratmir, had been rejected as a suitor by the princess. After granting permission for Antonida to marry Bogdan Sobinin, the protagonist of another of this composer's operas is killed in the Enchanted Forest. Ivan Susanin had deceived some Poles who were attempting to kidnap Mikhail Romanov in that opera. For 10 points, name this composer of the first fully-sung native Russian operas, *Ruslan and Lyudmila* and *A Life for the Tsar*.

ANSWER: Mikhail Ivanovich Glinka

019-11-30-15102

2. This city's lower-class, the *lazzaroni*, supported monarchism and revolted against the Parthenopean Republic in 1799. In this city, a new tax on fruit brought about the revolt of the fisherman Masaniello, who was soon shot. It was given to Charles V in the Treaty of Blois, after which it was ruled by Spanish viceroys. This city's law code was reformed under the rule of Napoleon's brother-in-law, Joachim Murat. Along with Sicily, the Kingdom of this city formed the Kingdom of the Two Sicilies. For 10 points, name this southern Italian city, whose name means "new city."

ANSWER: Naples [or Neapolis; or Napoli]

080-11-30-15103

3. Driver improved upon Bismut's version of this formula for jump processes. Darboux's formula is a consequence of its repeated application and Abel's formula is its analogous discrete method. It can be derived by using the product rule on two functions then applying the fundamental theorem of calculus and rearranging terms. One variant of takes the products of a item in a table with the item to its lower right then sums the products using alternating signs. That tabular method is used when this is done repeatedly. The LIATE rule is a heuristic for using it where L stands for logarithm and I for inverse trig function. For 10 points, name this integration technique that states that the integral of $u \, dv$ equals uv minus the integral of $v \, du$.

ANSWER: integration by parts

001-11-30-15104

4. The introduction to one of this man's works discusses the execution of the regicide Robert-Francois Damiens. This thinker developed the method of "genealogy" to show that modernity's *episteme* was not "rationally inevitable." This writer also attempted to trace the origins of the "repressive hypothesis" and the concept of "biopower" in another work. This author analyzed the "medical gaze" in *The Birth of the Clinic* in addition to writing *The History of Sexuality*. Another of his works describes how Bentham's Panopticon allows guards to exert control without continual observation. For 10 points, name this French thinker who wrote *Discipline and Punish*.

ANSWER: Michel Foucault

033-11-30-15105

5. One stretch of this river flows through a volcanic region called the Singu Plateau. A series of seven controversial dams are planned for construction on this river, the largest of which is the Myitsone dam. The Taping and Chindwin are tributaries of this river which is formed by the confluence of the Mali and N'mai rivers. This river is also home to and names a certain type of beakless dolphin that shares many physical features with the beluga whale. The delta of the Salween River lies about one hundred miles east of the delta of this river, which flows into the Andaman Sea. Yangon lies in the delta of this river, while the largest city on it is Mandalay. For 10 points, name this longest river in Myanmar.

ANSWER: **Irrawaddy** River [or **Ayeyarwaddy** River]

064-11-30-15106

6. A sine squared factor in the denominator of the gain-saturation function for these devices causes "spatial hole burning" in the gain coefficient. That gain coefficient is equal to a threshold value in "continuous-wave oscillation" of these devices, in which the cavity photon number is constant. These devices make use of a deviation from thermal equilibrium in which there are more electrons in a higher energy level than a lower energy level, a phenomenon known as population inversion, though ones that work without population inversion do so using quantum coherence. For 10 points, name these devices that produce highly coherent light through stimulated emission of radiation.

ANSWER: **lasers** [or **light amplification** by **stimulated emission** of **radiation** before "stimulated"]

003-11-30-15107

7. The protagonist of this novel takes a job under an ignorant boss who just organizes rallies such as Tougher Teeth Week and Banish the Booze Week. The title character is fired for ordering the McCandless tenements to be burnt down after inheriting the position of Dr. Almus Pickerbaugh. At the end of this novel the protagonist divorces his second wife Joyce Landon and goes to work with Terry Wickett in rural Vermont. The title character is invited to join the McGurk Institute by his former teacher Max Gottlieb, and his wife Leora Tozer dies from an infected cigarette while he is studying the bubonic plague on the island of St. Hubert. For 10 points, name this novel about the title doctor, Martin, by Sinclair Lewis.

ANSWER: **Arrowsmith**

105-11-30-15108

8. The narrator of this poem wishes "I were as in my boyhood, and could be the comrade of thy wanderings." Its third stanza describes the "blue Mediterranean" and the "sapless foliage" which suddenly "grow grey with fear and tremble and despoil themselves." The title entity of this work is described as spreading "angels of rain and lightning." The narrator of this poem cries "I fall upon the thorns of life! I bleed!", and describes the title figure as both "destroyer and preserver." This work begins with a description of the title figure as a "breath of Autumn's being" and it ends by asking "if Winter comes, can Spring be far behind?" For 10 points, name this poem by Percy Bysshe Shelley, an ode to the title harbinger of Autumn.

ANSWER: **Ode to the West Wind**

059-11-30-15109

9. This figure forced another deity to retrieve a giant "turnip head" arrow and spend two nights in rooms full of centipedes and snakes before he could marry his daughter. This figure gave birth to five children by biting his sibling's necklace. After being expelled from heaven, this figure used giant tubs of wine to make a dragon drunk and rescue Kushinada-hime. This deity threw a flayed horse into his sister's room. He retrieved the Kusanagi blade after killing Yamata-no-Orochi. For 10 points, name this brother of Amaterasu, the Shinto god of storms.

ANSWER: **Susano'o**

080-11-30-15110

10. This leader was one of the few to survive the siege of the Bituriges tribe capital of Avaricum. In one battle, he was forced to watch his people's women and children starve after ejecting them from his besieged city. The sudden support of the Aedui helped this man fend off a siege of Gergovia. He was dragged through Rome in chains in a 46 BCE triumph. He was finally captured after a siege in which the Romans built two sets of walls around the town of Alesia. For 10 points, name this leader of the Arverni tribe who was defeated by Julius Caesar during the Gallic Wars.

ANSWER: **Vercingetorix**

015-11-30-15111

11. This thinker asked "are democracy and social science compatible each with each?" and "are today's youth different?" in two chapters in this thinker's study of America. In addition to writing *And Keep Your Powder Dry*, this author studied the mountain-dwelling, river-dwelling, and lake-dwelling Arapesh, Mundugumor, and Tchambuli. The best known work of this thinker studied 68 individuals between the ages of nine and twenty on the island of Tau, many of whom later admitted to lying to her. "The Making and Unmaking of an Anthropological Myth" was written by Derek Freeman to criticize this author, who posited that women in the title society had lots of casual sex before marriage. For 10 points, name this anthropologist who wrote *Sex and Temperament in Three Societies* and *Coming of Age in Samoa*.

ANSWER: Margaret **Mead**

081-11-30-15112

12. Overexpression of YUCCA genes increase the synthesis of these compounds by increasing hydroxylation of tryptamine, and another step of their synthesis is catalyzed by nitrilase. The toxin fusicoccin mimics some of the effects of these compounds, which binds to the TIR1-SCF complex. They trigger increased efflux of protons across the cell wall, causing the activation of expansins; that mechanism is known as the acid-growth hypothesis. This hormone moves from shoots downward in a process known as polar transport, and it helps establish apical dominance. Experiments with blocks of agar also showed that its responsible for phototropism. For 10 points, name this plant hormone, examples of which include indole-3-acetic acid.

ANSWER: **auxin**

048-11-30-15113

13. After his death, this man's papers were edited by his student, Theodore Beza. This Christian theologian's followers later split into supralapsarians and infralapsarians. After his death, this theologian's central ideas were summarized into the "Five Points", which can be abbreviated as TULIP and which include the ideas of Irresistible Grace and Total Depravity. This theologian set forth his beliefs in the book *Institutes of the Christian Religion*. For 10 points, name this Protestant reformer from Geneva, whose namesake denomination believes in predestination.

ANSWER: John **Calvin**

021-11-30-15114

14. This composer dedicated his piece "Be Embraced, You Millions" to his admirer Brahms. His popularity was challenged in his native country by Karl Ziehrer and in France by Emil Waldteufel. After successfully touring Russia from 1856 to 1858, he composed his "Tritsch-Tratsch Polka." This composer gained fame for pieces such as "Wiener Bonbons" and "Wine, Women, and Song," which are played every New Year's Eve at a televised concert of the Vienna Philharmonic. For 10 points, name this Austrian composer of "Tales from the Vienna Woods" and "The Blue Danube," who was known as the Waltz King.

ANSWER: Johann **Strauss II** [prompt on **Strauss**; accept clear-knowledge equivalents such as "the younger Strauss"]

004-11-30-15115

15. Clerical involvement in this era was criticized in books like *Backwards Christ*. Norman Bailey claimed an intimidation tactic in this era was to replace fetuses with roosters. One phase of this period saw a decree repeal the 1930 labor laws and tacit government endorsement of violence against Protestant churches. The chaos of this period led to one group forming the Marquetalia Republic after it was ended by a sixteen-year power-sharing agreement. The assassination of Jorge Eliecer Gaitan sparked its earliest phase, the Bogotazo, and tens of thousands died in liberal-conservative clashes. For 10 points, name this 1948 to 1964 informal conflict that destroyed Colombian society.

ANSWER: La **Violencia**

019-11-30-15116

16. In Ivan Turgenev's *The Torrents of Spring*, one of these events causes Gemma to end her engagement to Kluber and fall in love with Sanin. In a Pushkin short story, a thrown candlestick at a card game prompts Silvio to tell of one of these events. In a Chekhov story the government official Laevsky becomes more temperate and the zoologist Von Koren becomes more spontaneous after one of these events. In *The Three Musketeers*, D'Artagnan meets his companions by scheduling three of these on the same day. In *Eugene Onegin*, Onegin's excessive dancing with Olga causes one of these events that results in the death of Lensky. For 10 points, Alexander Pushkin himself died engaged in what honor-defending practice?

ANSWER: **dueling**

015-11-30-15117

17. In one work by this author, the kindly English lord Edward Bomston offers to protect Julie d'Etange, who is forced to marry de Wolmar despite her love for her Swiss tutor Saint-Preux. In another work, a character named for this author uses the idea of a woman named "Sophie" to talk to his pupil about marriage. This author of *The New Heloise* remembered urinating in a neighbor's cooking pot in an autobiographical work which also revealed that he had fathered five illegitimate children with Therese Levasseur. For 10 points, name this French author of *Emile* and *Confessions*, whose more political works included *The Social Contract*.

ANSWER: Jean-Jacques **Rousseau**

015-11-30-15118

18. A man in a straw hat holds a mallet and bends down in one of this artist's five depictions of the game of croquet. He painted a man standing in the surf with a shotgun as two ducks react to the blast in *Right and Left*. This artist painted a soldier for the Union sitting in a tree in his *Sharpshooter on Picket Duty*. He depicted a group of children, including two who have fallen over, playing the title game in front of a schoolhouse in his *Snap-the-Whip*. One of his works shows a ship called the Gloucester carrying four men to harbor, and another shows a man of African descent on a ship in rough waters that is surrounded by sharks. For 10 points, name this painter of *Breezing Up* and *The Gulf Stream*.

ANSWER: Winslow **Homer**

088-11-30-15119

19. In his early life, this man served on a congressional board investigating the Apollo 1 fire, during which he questioned NASA administrator James Webb about supposed internal detailing problems with the chief Apollo contractor. During one debate, he told the audience that both he and his opponent would raise taxes, but only he was honest enough to admit so. He used the Wendy's slogan "where's the beef?" to defeat Gary Hart in the Democratic primaries, after which he selected New York congresswoman Geraldine Ferraro as his running mate. For 10 points, name this Senator from Minnesota, Vice President under Jimmy Carter, and loser by over 500 votes to Ronald Reagan in the election of 1984.

ANSWER: Walter Frederick **Mondale**

064-11-30-15120

20. Scherrer's formula is used to compute the shape factor when using this technique. In this technique, the accuracy of the resulting model with the raw data is given by the R-factor. The sample undergoing this technique is placed on a goniometer and rotated. This technique was used by Perutz and Kendrew to study myoglobin, and this technique was developed by Max von Laue. Another famous application of this technique produced photo 51, which was shown to Maurice Wilkins; that application of this technique was performed by Rosalind Franklin to determine the structure of DNA. For 10 points, name this technique which is used to find the structure of proteins and other macromolecules, in which the sample is bombarded by high-energy radiation.

ANSWER: **X-ray crystallography** or **X-ray diffraction**

048-11-30-15121

21. Time constructible functions are functions whose output describe the time for this to occur. Sums of two to the negative probability of this occurrence make up the transcendental omega numbers. Tibor Radó devised a problem looking for setups responsible for the maximum number of ones before this happens. That is the busy beaver problem. For linear bounded automata, this occurrence can be computed. A diagonal proof showed that there is no general procedure for predicting if this will happen. That was shown in a paper on the Entscheidungs problem by Alan Turing. If this does not happen, a machine will runs forever. For 10 points, name this termination of a computation by a Turing machine.

ANSWER: **halting** [accept equivalents]

024-11-30-15122

22. A king of this dynasty who was succeeded by his uncle Phillip V and lived for five days was known as John the Posthumous. The members of this dynasty were all descended from Robert the Strong. A king of this dynasty who defeated the forces of emperor Otto IV at Bouvines was named Phillip Augustus. Another king of this dynasty was captured by Edward the Black Prince and was ransomed after the battle of Poitiers. Succeeding the Carolingian dynasty, it held power for over three hundred years before being replaced by the Valois dynasty. For 10 points, name this French dynasty founded by Hugh in 987.

ANSWER: **Capetian** Dynasty

100-11-30-15123

23. This poet wrote of being left alone on the shore because the title vehicle is too small and full in the title poem of his collection *Sonar Tori* or *The Golden Boat*. He asked "Into that heaven of freedom, my Father, let my country awake" in a poem which begins "where the mind is without fear" and which he translated into English as "Prayer." In one of his plays, the emperor separates himself from the world behind an iron curtain to escape a revolution against a mining company lead by Nandini. In addition to *Red Oleanders*, this author wrote lines like "because I love this life, I know I shall love death as well" in a collection of 103 poems, for which William Butler Yeats wrote a preface. For 10 points, name this Bengali author of *Gitanjali*.

ANSWER: Rabindranath **Tagore**

088-11-30-15124

1. The Miranda family hires a spinster from Washington D.C. named Harriet Winslow to teach their children English in this work. For 10 points each:

[10] Identify this novel, in which the title novelist goes searching for Pancho Villa.

ANSWER: The Old Gringo [or Gringo Viejo]

[10] *The Old Gringo* is a novel by this Mexican author, best known for *The Death of Artemio Cruz*.

ANSWER: Carlos Fuentes Macias

[10] Fuentes' magnum opus is this sprawling novel which focuses on the building of El Escorial. Recurring figures in this novel include Ludovico and Celestina.

ANSWER: Terra Nostra

094-11-30-15201

2. Planar ones can be drawn with no intersections. For 10 points each:

[10] Name these sets of nodes and their edges.

ANSWER: graphs

[10] These are simple undirected graphs in which each node is directly connected by an edge to every other node.

ANSWER: complete graph

[10] This theorem states that for numbers k and l, there exists a sufficiently large number A such that every graph with A nodes contains either a complete subgraph of at least size k or an independent set of at least size l.

ANSWER: Ramsey's Theorem

001-11-30-15202

3. This goddess defeated Poseidon in a contest for the patronage of her namesake city. For 10 points each:

[10] Name this Greek goddess of war and wisdom who sprang fully formed from Zeus's head.

ANSWER: Athena

[10] In the *Odyssey*, Athena assumes the guise of this son of Alcimus to tell Telemachus to stand up to the suitors.

ANSWER: Mentor

[10] As Mentor, Athena appears in Odysseus' final battle against the suitors. Odysseus kills the prophet Leodes, but spares two people: a bard and a herald. Name either.

ANSWER: Medon and Phemius [accept either]

015-11-30-15203

4. Andre Geim invented a method of isolating this material. For 10 points each:

[10] Name this two dimensional material that some believe will one day replace silicon in transistors.

ANSWER: graphene

[10] The carbon atoms in graphene and ethene have this hybridization.

ANSWER: sp²

[10] This other carbon allotrope with a cylindrical structure is a candidate for silicon replacement. They can be single-walled or multi-walled and are known for their extremely high tensile strength.

ANSWER: carbon nanotubes

024-11-30-15204

5. Politicians from this country included Jorg Haider and Kurt Weldheim. For 10 points each:

[10] Name this country that merged with Germany in the Anschluss.

ANSWER: **Austria**

[10] The Anschluss was forbidden by this treaty, which was signed by the Allies and Austria after World War I.

ANSWER: Treaty of **Saint-Germain**

[10] An Edict of Saint-Germain was promulgated by this French ruler, who served as regent for her sons Francis II, Charles IX, and Henry III.

ANSWER: **Catherine de Medicis** [prompt on partial answer]

015-11-30-15205

6. One character in this play is first seen muttering slogans for products such as Doublemint gum and lashes out at Jill after she tries to seduce him in Harry Dalton's stable. For 10 points each:

[10] Name this play in which the anxiety-ridden therapist Martin Dysart treats Alan Strang.

ANSWER: **Equus**

[10] This British playwright of *Royal Hunt of the Sun* and *Equus* wrote of Salieri's rivalry with God as personified by Mozart in *Amadeus*.

ANSWER: Peter **Shaffer**

[10] This other modern British playwright wrote about minor characters from *Hamlet* in *Rosencrantz and Guildenstern Are Dead*.

ANSWER: Sir Tom **Stoppard**

104-11-30-15206

7. After suggesting in 2003 that any computer equipment used for copyright violations should be able to be destroyed, it was discovered that this Senator's website was using JavaScript code that was unregistered. For 10 points each:

[10] Name this Repbulican from Utah who is noted for his stance on strengthening copyright enforcement and has held his seat in the Senate since 1977.

ANSWER: Orrin Grant **Hatch**

[10] Hatch acted as co-sponsor of the Drug Price Competition and Patent Term Restoration Act with this Representative, a Democrat from Southern California and longtime anti-tobacco and pro-government oversight advocate.

ANSWER: Henry Arnold **Waxman**

[10] Hatch served as the chairman of this committee from 1995 to 2001; it is currently chaired by Patrick Leahy of Vermont.

ANSWER: Senator **Judiciary** Committee

088-11-30-15207

8. A horse-like figure with a lance is the title figure of this artist's *The Antipope*. For 10 points each:

[10] Identify this painter of *The Elephant Celebes* who borrowed imagery from Victorian classics for his graphic novel *A Week of Kindness*.

ANSWER: Max **Ernst**

[10] The Nazis gave Max Ernst's artwork this designation, a broad label applied to modern artists that corrupted Aryan purity with possibly Jewish overtones. An exhibition of it was organized by Hitler.

ANSWER: **Degenerate** Art

[10] Another artist termed degenerate was this Belarusian, who pained *Self-Portrait with Seven Fingers* as well as *I and the Village*.

ANSWER: Marc **Chagall**

033-11-30-15208

9. Many of its leaders were sentenced to Robben Island at the Rivonia Trial, accused of everything from violating the Suppression of Communism Act to perpetrating terrorism through its violent wing, Umkhonto we Sizwe or Spear of the Nation. For 10 points each:

[10] Name this political party, led during the apartheid era by Walter Sisulu, Oliver Tambo, and Nelson Mandela.

ANSWER: **ANC** [or **African National Congress**]

[10] While the ANC used more militant means, this Anglican Bishop of Johannesburg opposed apartheid through the international media. He later became the chairman of the Truth and Reconciliation Commission.

ANSWER: Desmond Mpilo **Tutu**

[10] This party opposed the stringency and the perceived domination of Xhosa in the ANC. Led by Mangosuthu Buthelezi, it advocated for Zulu interests.

ANSWER: **Inkatha** Freedom Party

019-11-30-15209

10. A confederate in this experiment could be heard warning the subject that he suffered from a heart condition. For 10 points each:

[10] Name this obedience experiment in which subjects thought they were applying nearly lethal doses of electric shock.

ANSWER: **Milgram**'s obedience experiment

[10] This other series of experiments confirmed that subjects were likely to adhere to a group consensus in asking subjects to identify the longest line in a room full of lying confederates.

ANSWER: **Asch** conformity experiments

[10] Muzafer Sherif noticed that groups of three converged on varying distances a dot of light on a wall moved, even though it only appeared to move through this effect.

ANSWER: **autokinetic** effect

015-11-30-15210

11. This work lambastes Marx in its section "The High Tide of Prophecy." For 10 points each:

[10] Name this book by the author of *The Logic of Scientific Discovery* in which a British philosopher attempts to unmask the "Spell of Plato" that leads to over-reliance on universal laws.

ANSWER: **The Open Society and its Enemies**

[10] This British philosopher of science wrote *The Open Society and its enemies*, and also posited that true science requires falsifiability.

ANSWER: Sir Karl Raimund **Popper**

[10] Walter Kaufmann, a prolific translator of this German thinker's works, accused Popper of relying on a Scribner's condensed version of this philosopher in penning *The Open Society and its Enemies*, which pairs this philosopher with Marx in its "High Tide of Prophecy" section.

ANSWER: Georg Wilhelm Friedrich **Hegel**

026-11-30-15211

12. Answer the following about a contemporary conductor for 10 points each:

[10] Identify this current director of the LA Philharmonic, who conducted its "Brahms Unbound" series from May 5 to June 5, 2011. A product of Venezuela's El Sistema, he is also the director of Orquesta Sinfonica Simon Bolivar in Caracas.

ANSWER: Gustavo Adolfo **Dudamel** Ramirez

[10] Dudamel's inaugural concert with the LA Philharmonic featured a performance of the final movement from this man's *City Noir*. He also composed *Shaker Loops* and *Short Ride In A Fast Machine*.

ANSWER: John Coolidge **Adams**

[10] Dudamel's inaugural recording with Deutsche Grammophon features this piece by Beethoven which is best known for its opening "short short short long" motif.

ANSWER: Ludwig van **Beethoven**'s **Fifth** Symphony [prompt on partial answer]

108-11-30-15212

13. In this work, Dude marries Bessie in part because she purchases a car with a loud horn. For 10 points each:

[10] Name this novel which ends with Jeeter and Ada Lester dying in a house fire caused by burning off grass on their farm.

ANSWER: **Tobacco Road**

[10] *Tobacco Road* is a work written by this American author, who also wrote *God's Little Acre*.

ANSWER: Erskine (Preston) **Caldwell**

[10] In *God's Little Acre* this patriarch obsessively digs on every part of his property searching for gold. At one point he kidnaps an albino believing he will help him find gold.

ANSWER: **Ty Ty** Walden [prompt on Walden]

088-11-30-15213

14. This region prevents water from leaving the cell wall and going into the root cortex. For 10 points each:

[10] Name this "strip" found in the endodermis of a plant, which is made of suberin.

ANSWER: **Casparian** strip

[10] Casparian strips are formed during the development of this vascular tissue that transports water from the root to the rest of the plant.

ANSWER: **xylem**

[10] Secondary xylem is typically absent in angiosperms of this type, which contain parallel leaf veins and flower parts in multiples of three.

ANSWER: **monocotyledon**

064-11-30-15214

15. This religion's liturgy is written in a dialect of Yoruba known as Lucumi. For 10 points each:

[10] Name this syncretic Caribbean religion that is similar to, though separate from, Voodoo.

ANSWER: **Santeria**

[10] Similar to Voodoo's loa are these central spirits of Santeria, who count among their number the machete-wielding Feraille.

ANSWER: **orishas**

[10] This supreme being of Santeria occupies a higher position than the orishas. It is also referred to as Olodumare.

ANSWER: **Olorun**

081-11-30-15215

16. This event was caused in part by the tightening of credit availability by institutions including the Bank of the United States. For 10 points each:

[10] Name this financial crisis that came at the end of the Era of Good Feelings.

ANSWER: **Panic of 1819**

[10] The Panic of 1819 took place during the tenure of this American president. His time in office also saw him veto the Cumberland Road Bill.

ANSWER: James **Monroe**

[10] The Adams-Onis treaty, agreed to during Monroe's time in office, saw Spain give up Florida and relinquish claims to this so-called 'country' that started at 42 degrees north latitude.

ANSWER: **Oregon**

088-11-30-15216

17. This man was said to have severed the Gordian Knot and to have stood in Diogenes' sun. For 10 points each:

[10] Name this leader who defeated Darius III at Issus.

ANSWER: **Alexander the Great**

[10] Alexander finished off Darius III and his traitorous satrap Bessus at this battle two years later.

ANSWER: Battle of **Gaugamela** [or Battle of **Arbela**]

[10] Many of Alexander's victories were assisted by well timed charges from this elite Macedonian cavalry unit, which was divided into groups of about three hundred horsemen.

ANSWER: the **Companions**

015-11-30-15217

18. This work shows the central figure holding onto a golden orb with a figure of Winged Nike on it. For 10 points each:

[10] Identify this sculpture of a French leader who holds a spear in his other hand and has a Roman robe draped over his arm.

ANSWER: **Napoleon as Mars the Peacemaker** [prompt on partial answer]

[10] *Napoleon as Mars the Peacemaker* is a work of this Venetian sculptor of *Pauline Borghese as Venus Victrix*.

ANSWER: Antonio **Canova**

[10] Canova sculpted this man holding a golden pen and looking at a blank tablet. He is commemorated by the world's tallest obelisk, which is located in the District of Columbia.

ANSWER: George **Washington**

033-11-30-15218

19. In 2010, the European Space Agency's GOCE satellite produced the first detailed map of this field. For 10 points each:

[10] Name this field that is approximated as pulling objects downward at an acceleration of 9.8 meters per second per second.

ANSWER: **Earth's gravitational** field [prompt on partial answer]

[10] One of these devices was used by Henry Cavendish to calculate the Earth's density and, ultimately, the gravitational constant. They have been ubiquitous in gravitational research ever since.

ANSWER: **torsion balance** [prompt on **balance**; prompt on other answers mentioning **torsion**]

[10] This is the region of space in which Earth's gravity dominates over the Sun and thus orbits are stabilized against perturbations from the Sun's gravity.

ANSWER: **Hill sphere**

003-11-30-15219

20. This work centers on a poisoned copy of a missing portion of Aristotle's *Poetic*. For 10 points each:
[10] Name this mystery novel in which William of Baskerville and the novice Adso of Melk investigate a monastery that is home to the murderous blind monk Jorge de Burgos.

ANSWER: The Name of the Rose [or *Il Nome della Rosa*]

[10] *The Name of the Rose* is a work written by this Italian author who also wrote *The Island of the Day Before*.

ANSWER: Umberto Eco

[10] In Eco's *Foucault's Pendulum*, the three main characters, Belbo, Casaubon, and Diotallevi create a fictional conspiracy that goes by this name.

ANSWER: The Plan [or *Il Piano*]

088-11-30-15220

21. The title character of this poem has a brow "so soft, so calm, yet eloquent" and has "a heart whose love is innocent." For 10 points each:

[10] Name this poem in which a woman is compared to "cloudless climes and starry skies."

ANSWER: "She Walks in Beauty"

[10] This rakish author of *Don Juan* wrote "She Walks in Beauty."

ANSWER: George Gordon, Lord Byron

[10] Byron claimed to have "awoke one morning and found myself famous" after the publication of the first part of this poem. It concerns a young man's travels through Europe.

ANSWER: Childe Harold's Pilgrimage

015-11-30-15221