



The Illinois Mathematics and Science Academy of Aurora, IL,



in partnership with Loyola Academy of Wilmette, IL, present

IMSANITY 3

-ROUND 9-

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Tossups

- (1) At the end of one novella by this author, the protagonist says that he and his wife will eat *mierda* if his pension does not arrive. In addition to *No One Writes to the Colonel*, this author penned a short story in which a couple grows wealthy by charging people to see what is believed to be an angel. This author compiled *A Very Old Man with Enormous Wings* alongside other short stories into his novella *Leaf Storm*, but he is more famous for a novel that follows the love between (*) Florentino and Fermina and another novel chronicling the Buendia family in the village of Macondo. For ten points, name this Colombian author of *Love in the Time of Cholera* and *One Hundred Years of Solitude*.

ANSWER: Gabriel Garcia Marquez

- (2) One thinker of this movement used the terms “encompassing” to represent determinate objects and “transcendence” as nothingness. In this movement, the concept of being “thrown into the world” of facts that already exist is known as “facticity”. This school of thought, which included Martin Buber and Karl Jaspers, also introduced the concept of the objectivity of the “Look” experienced by the “Other”. One work in this movement contrasts the “being-in-itself” and “being-for-itself;” that work also discusses (*) “bad faith” and is titled *Being and Nothingness*. For ten points, name this philosophy of Martin Heidegger and Jean-Paul Sartre that focuses on the human condition.

ANSWER: existentialism or existentialist

- (3) In the *Ramayana*, Vishvamitra uses one of these weapons created by Brahma against Vasishta, who survives nonetheless. The Norse god Ullr is usually depicted wearing skis and holding one of these weapons. One of these objects made of sugarcane and honeybees is owned by the Hindu love god, Kama, and Sita married Rama after he was able to use one of these objects belonging to Shiva. Iphitus gave Odysseus one of these weapons which (*) Penelope used to determine which of her suitors she would marry. Wielded by Apollo and Artemis, for ten points, name this object from which Cupid often fired arrows of love.

ANSWER: bows (accept answers like “bow and arrow”)

- (4) Thorismund defeated this leader's left flank and captured an important hill, but instead of pursuing this leader, secured his own succession at Toulouse under the advice of Flavius Aetius. Valentinian III's sister, Honoria, sent this man a ring shortly before he was defeated by Roman and Visigoth forces—but killed Theodoric—at the Battle of (*) Chalons. This man later went to Mantua, where Pope Leo the Great convinced him to not sack Rome. For ten points, name this brother of Bleda, a man nicknamed the "Scourge of God", who led the Huns on an invasion of Europe.

ANSWER: Attila the Hun

- (5) These entities are produced by Park and Miller's MINSTD method. One way to produce these entities is the middle-square method of John von Neumann. These entities are often created using a linear congruence method. Suboptimal ones of these exhibit serial correlation, whereas optimal ones pass the next-bit test. Nuclear decay or shot noise can form the basis of hardware methods for these objects, and software methods use generation from an (*) initial seed. Often used for cryptographic or statistical purposes, for ten points, identify these unpredictable quantities.

ANSWER: random numbers (accept pseudorandom numbers)

- (6) This artist showed a blind-folded lady playfully reaching at a circle of friends with a spoon in *Blind Man's Bluff*. This artist painted naked and non-naked works depicting the same reclining woman in addition to an etching of himself resting his head on a desk as bats and owls swarm him. This artist of clothed and nude (*) *Majas* included *The Sleep of Reason Produces Monsters* in his series "Los Caprichos". In his most famous painting, a black sky overlooks a man in yellow pants with arms outstretched facing a firing squad on the right. For ten points, name this Spanish artist of *Third of May 1808*.

ANSWER: Francisco Goya y Lucientes

- (7) This man's father names the cooperativity of oxygen binding to hemoglobin, and electron magnetic dipole moments are measured in units of this man's namesake magneton. This man's correspondence principle states that the results of quantum mechanics must approach those of classical mechanics in sufficiently large calculations, and 0.53 angstroms is the length of his namesake (*) radius, the most likely distance between the hydrogen nucleus and its electron. Helping to formulate the Copenhagen interpretation, for ten points, name this Danish physicist who posited that electrons travel in circular orbits around a dense nucleus.

ANSWER: Niels Henrik David Bohr

- (8) **The winning side of this conflict gained a short-lived upperhand at the Battle of Elandslaagte. That army also faced hard losses during the Black Week in this conflict. A telegram of congratulations sent by Wilhelm II led to this war. Robert Baden-Powell prevented his side from losing in the Siege of Mafeking, and an investigation on concentration camps resulting from this war was led by the Fawcett commission. Ending with the Treaty of (*) Vereenging, one side of this conflict was led by Lord Kitchener and was partly instigated by the Jameson raid. Resulting in the dissolution of states under Paul Kruger, for ten points, name this South African conflict between the British and the namesake ethnic Dutch.**

ANSWER: Second Boer War

- (9) **In 2012, this state’s capital announced a beautification project that would remove the Main Street Dam from its Scioto River. One river in this state was described as “ooz[ing] rather than flow[ing]” and having “no visible life” in a *Time* magazine article written after it caught fire; that river is the Cuyahoga. The western border of this state is defined by the Miami River, and the southern border of this state is formed by a river which meets the (*) Allegheny and Monongahela just east of this state. For ten points, name this state, the namesake of the largest tributary of the Mississippi River.**

ANSWER: Ohio

- (10) **In this novel, a prostitute is held hostage in a hotel room until she says “uncle”, and one character is indignant that, instead of syphilis or the clap, he contracted malaria while fornicating. Another character in this novel commits suicide after the propeller of his plane kills Kid Sampson; that character is McWatt. A mother dies upon learning the middle name of her son, and one character buys eggs for (*) seven cents and sells them for five to earn huge profits for his syndicate. Featuring characters such as Major Major and Milo Minderbinder, for ten points, identify this World War II novel which follows its protagonist Yossarian in Pianosa, a novel by Joseph Heller.**

ANSWER: Catch-22

- (11) **One character in this film hates it when her family members put weapons on tables, and the most moving speech in this film came out of charade-like motions of the protagonist’s mother. Two characters in this film sneak into the palace to steal a tapestry, and another character has a wooden leg after fighting a bear. One character follows Will O’Wisps to find her destiny and later splits an (*) arrow through the middle to win her own hand. Elinor, along with the triplets Harris, Hubert, and Hamish, are all turned into bears, the same way Mor’du had been. For ten points, identify this Pixar film about the Scottish princess Merida.**

ANSWER: Brave

- (12) **One conflict between these two nations almost occurred over an incident caused by Captain Charles Wilkes of the San Jacinto. In addition to that incident where James Mason and John Slidell were arrested, another conflict between these two nations occurred after a fight between the Leopard and the Chesapeake. The Hartford Convention discussed ending a conflict between these two nations, and the (*) War Hawks in Congress advocated conflict between these nations. During another conflict between these countries, the Battle of New Orleans occurred after it was ended by the Treaty of Ghent. For ten points, name these two countries that fought in the War of 1812 and the Revolutionary War.**

ANSWER: United States of America (or USA) and Great Britain (or United Kingdom)

- (13) **Beethoven composed the third movement of one of these works in Lydian F, which he labeled “Heiliger Dankgesang”. One of these works in which the recapitulation directly follows the exposition is Alban Berg’s *Lyric Suite*, and a high E depicts the composer’s deafness in one of these by Smetana titled “In My Life”. Mozart composed a “Dissonant” one and Schubert adapted one of his lieder into one named (*) *Death and the Maiden*. One man who composed examples of these works titled “Sunrise” and “Emperor” was considered the “father” of this form; that man was Joseph Haydn. For ten points, name these works for a chamber ensemble consisting of two violins, a viola, and a cello.**

ANSWER: string quartet

- (14) **One author from this country wrote about three friends inventing a conspiracy theory involving the Knights Templar called “The Plan”. Another novel from this country features reader Ludmilla, and uses the odd-numbered chapters to prepare the reader for the upcoming chapter. In addition to the the authors of *Foucault’s Pendulum* and *If on a Winter’s Night a Traveler*, this country is home to an author who wrote about a family interrupting a play to perform their own story in (*) *Six Characters in Search of an Author*. This country also served as the setting of *Taming of the Shrew* and *Romeo and Juliet*. For ten points, name this country, home to the authors Umberto Eco, Italo Calvino, and Luigi Pirandello.**

ANSWER: Republic of Italy

- (15) **Bennettitales**, an extinct line of these organisms with recessed microsporangia, is theorized to be a sister group to this monophyletic group. This group's most distant-living relative is endemic to New Caledonia and is called **Amborella**. Their integuments have two layers, and the megasporangia of members of this group become triploid after undergoing a process called **double fertilization**. They can be classified into (*) monocots and eudicots, but are most easily distinguished from another phylum of seed bearing plants by the presence of stamens and carpels. For ten points, name these often fruit bearing plants that have flowers and which are contrasted with gymnosperms.

ANSWER: angiosperms

- (16) One character in this novel impregnated and abandoned Eliza Williams, and after eloping, two characters go to Dawlish. One character thought himself in love because he spent a boring year at Longstaple, and another relationship begins when one character sprains her ankle. Lucy Steele marries her fiance's older brother, Robert, and the protagonists move to Barton Cottage after Fanny makes them leave Norland Park. After being rejected by John (*) Willoughby, Marriane marries Colonel Brandon, and Edward Ferrars marries Elinor. For ten points, identify this first work about the Dashwood sisters, the first published novel of Jane Austen.

ANSWER: Sense and Sensibility

- (17) One of these events in the second chapter of Acts involved three thousand people in Jerusalem. After an earthquake freed Paul and Silas from prison, his jailor's family took part in one of these events. It's not the transfiguration, but one of these events caused God to respond "This is my beloved son, in whom I am well-pleased." The most famous performer of this practice was said to be the reincarnation of Elijah, was imprisoned for calling out the incestuous marriage of (*) Antipas, and died when Salome ordered his head on a platter. For ten points, name this Christian ritual notably performed in the Jordan River by Jesus's cousin John in which a person is covered in water.

ANSWER: baptism

- (18) This man presented his paper *Rotating Universes in General Relativity Theory* at the 1950 International Congress of Mathematicians. This man's dissertation, completed under Hans Hahn, proved that first-order logic was complete. This man proved that the axioms of set theory were consistent with the Axiom of Choice. His paper *On Formally Undecidable Propositions in Principia Mathematica and Related Systems* showed that there were true statements which could not be proven. (*) For ten points, name this Austrian logician who proved a namesake Incompleteness Theorem.

ANSWER: Kurt Gödel

- (19) After signing the Peace of Abo, Russia entered this war too late to affect the outcome. This war included battles to take Fort St. David although the invading French forces were then forced to defend Pondicherry. William Shirley and his forces took Louisbourg fortress from the French in the North American theatre of this war, named after the king who led his forces in this conflict's Battle of Dettingen. This conflict arose due to violation of the (*) Pragmatic Sanction of 1713 and ended with the Prussian annexation of Silesia by the Treaty of Aix-la-Chapelle. For ten points, name this war instigated over disagreement of the ascension of Maria Theresa to the Hapsburg throne.

ANSWER: War of the Austrian Succession

- (20) The velocity of particles in this state can be characterized by the Vlasov equation, and another aspect of this state is characterized by the Saha-Langmuir equation. Instabilities in these substances are often caused by Birkeland currents, and one form of oscillations in these are called Alfven waves. Rarefied forms of these substances are insulated by a Debye sheath. Other varieties found in space containing large particles are called "grain" and "dusty". A form of this on ships is called (*) St. Elmo's fire. This state was first discovered in a Crookes tube, but it is more commonly found in lightning and TV displays. Flame is an instance of, for ten points, this fourth state of matter composed of partially ionized gas.

ANSWER: plasma

- (21) This process is started by the reduction of thioredoxin by ferredoxin, and in some organisms, this process is preceded by a step in which PEP carboxylase catalyzes the addition of a certain molecule to another for storage purposes. In other organisms, this process is inhibited by the presence of oxygen, which inhibits a certain enzyme in a process known as photorespiration; that enzyme is (*) rubisco. Its most notable step results in the production of two molecules of glyceraldehyde-3-phosphate from an unstable intermediate, and it takes place in the stroma. For ten points, name these "dark reactions" of photosynthesis which produce glucose from carbon dioxide.

ANSWER: Calvin-Benson cycle (prompt "dark reactions" or "light-independent" before mention)

Bonuses

- (1) He discussed the Aborigines' avoidance of incest in his work *Totem and Taboo*. For ten points each:
- [10] Identify this Austrian psychologist who founded psychoanalysis. He split the psyche into id, ego, and superego and wrote *The Interpretation of Dreams*.
ANSWER: Sigmund Freud
- [10] This thinker claimed that Freud's concept of the Oedipus complex was limited to Western culture in his book *Sex and Repression in Savage Society*, which was based on his studies of the Trobriand Islanders.
ANSWER: Bronislaw Malinowski
- [10] According to Freud, the Oedipus complex arises in the phallic stage, the third of five stages in this theory of development he created.
ANSWER: psychosexual theory of development
- (2) They can be either intrinsic or extrinsic, and their UV Ceti type stems from very high flare activity in red dwarfs. For ten points each:
- [10] Identify these stars, including Algol and Mira, which exhibit alterations in luminosity.
ANSWER: variable stars
- [10] These variable stars were commonly used as standard candles by Hubble to discover the expansion of the universe. They lie on the instability strip, and can be distinguished from the Delta Scuti and RR Lyrae varieties.
ANSWER: Cepheid variables
- [10] These variable stars, consisting of very massive supergiants, have bright, irregular outbursts. They later evolve to Wolf-Rayet stars, and include Eta Carinae, P Cygni, and their namesake in the Large Magellanic Cloud.
ANSWER: S Doradus variables or Luminous Blue Variables or LBVs
- (3) The acts of this work are interrupted by "knee plays". For ten points each:
- [10] Name this plotless opera about the titular scientist, containing movements such as "Mr. Bojangles" and "I Feel the Earth Move".
ANSWER: Einstein on the Beach
- [10] This American minimalist composer created *Einstein on the Beach* as the first piece in his Portrait Trilogy.
ANSWER: Philip Glass
- [10] The third opera of Glass's Portrait Trilogy is this one, which ends with the title character in a funeral procession as a bass theme from *Einstein on the Beach* is played.
ANSWER: Akhmaten

- (4) Answer the following about providing medicine to war casualties for ten points each.
- [10] The first of these agreements that established humanitarian law during war, notably for victims and prisoners, was made in 1864 and amended three times.
ANSWER: Geneva Conventions (do not accept “Geneva Protocol”)
- [10] The International Red Cross was founded by Henry Durant after seeing the aftermath of this battle in the Second Italian War of Independence that followed the Battle of Magenta.
ANSWER: Battle of Solferino
- [10] This nurse developed new methods for collecting and representing statistics while earning the nickname “Lady with the Lamp” during the Crimean War.
ANSWER: Florence Nightingale
- (5) Mr. Rosier seeks permission to marry Pansy, but her father doesn’t even allow her to dance with him. For ten points each:
- [10] Identify this novel, in which the protagonist visits her dying cousin Ralph Touchett, but returns to Rome and her husband, Gilbert Osmond.
ANSWER: The Portrait of a Lady
- [10] In this novel by the author of *The Portrait of a Lady*, the governess tries to free Miles and Flora from the ghosts of Miss Jessup and Peter Quint.
ANSWER: The Turn of the Screw
- [10] This author of *The Portrait of a Lady* and *The Turn of the Screw* wrote about Maggie Verner in *The Golden Bowl*.
ANSWER: Henry James
- (6) One man’s improvisation on this instrument was described as “sheets of sound”. For ten points each:
- [10] First, identify this man whose bands released the albums *My Favorite Things* and *A Love Supreme*.
ANSWER: John William Coltrane
- [10] John Coltrane is best known as a player of this jazz instrument. He played its soprano version in *My Favorite Things*, but later switched to the tenor variety.
ANSWER: saxophone
- [10] This movement of Aram Khachaturian’s ballet *Gayane* features a solo on tenor saxophone.
ANSWER: Sabre Dance

- (7) While “at her needle,” she embroiders beautifully for the rich and makes clothing to donate to the poor. For ten points each:
[10] Identify this character, the wife of Roger Chillingworth, who must live with an embroidered “A” because of her affair with Arthur Dimmesdale.
ANSWER: Hester Prynne (accept either)
[10] Hester Prynne is the protagonist of this author’s *The Scarlet Letter*. He wrote about the Pyncheon family in *The House of the Seven Gables*.
ANSWER: Nathaniel Hawthorne
[10] In *The Scarlet Letter*, the women of Boston were willing to accept Hester’s embroidery for all but this one occasion.
ANSWER: marriage (accept common-knowledge equivalents like wedding or anything involving a bride)
- (8) Answer the following about the Mexican-American War for ten points each.
[10] One American goal in the war was to gain this region on the Pacific coast from Mexico. Shortly before the War, American settlers here declared the Bear Flag Republic, and shortly after the War, this region became the thirty-first state of the United States.
ANSWER: California
[10] This United States President oversaw the Mexican-American War in addition to signing the Oregon Treaty with Britain to establish borders on American claims in the Pacific Northwest.
ANSWER: James Knox Polk
[10] Critical of Polk’s pretext for war, Representative Abraham Lincoln proposed this measure demanding to know the location of the Thornton Affair, at which Americans had supposedly been provoked by Mexican forces.
ANSWER: Spot Resolutions
- (9) Yeasts do not grow these structures, which can be divided into smaller compartments by septa. For ten points each:
[10] Name these filamentous structures which can conglomerate and form a body called a mycelium.
ANSWER: hyphae
[10] Hyphae are characteristic of this kingdom of organisms which include mushrooms and bread molds.
ANSWER: fungus or fungi
[10] Hyphae can form this symbiotic relationship with vascular plant roots by exchanging nutrients. This relationship can be classified as arbuscular if the hyphae penetrate plant cell wall.
ANSWER: mycorrhizae

(10) This religion's right to sacrifice animals was upheld in *Church of Lukumi Babalu Aye v. City of Hialeah*. For ten points each:

[10] Name this west African and Caribbean religion based on Yoruba myth which venerates orishas.

ANSWER: Santeria

[10] Santeria blends aspects of Yoruba culture with Roman Catholicism, identifying saints with the orishas, and thus making Santeria this kind of religion that combines aspects from multiple beliefs.

ANSWER: syncretic religion

[10] The highest ranked priests in Santeria are associated with this method of divination which uses palm nuts to obtain knowledge from Orunmila.

ANSWER: Ifa

(11) This force often confounded designers of long-range guns. For ten points each:

[10] Name this force responsible for introducing the counterclockwise spin of cyclones in the Northern hemisphere, and much less responsible for the direction of toilet flushing.

ANSWER: Coriolis force

[10] This other force is an acceleration felt in the direction of apparent motion when the speed of rotation of a rotating body varies. It is experienced as the backwards push when a carousel spins up.

ANSWER: Euler force

[10] The preceding two forces are only experienced in rotating reference frames. This term refers to reference frames that do not experience these forces.

ANSWER: inertial reference frames

(12) Answer the following about equilateral parallelograms for ten points each.

[10] This type of quadrilateral, of which squares are a special example, has equal opposite angles and four equal side lengths.

ANSWER: rhombus

[10] In every rhombus, these features perpendicularly bisect each other.

ANSWER: diagonals

[10] The dual of a cuboctahedron is a polyhedron with this number of faces, all of which are rhombuses.

ANSWER: 12

- (13) He retrieved bones from Mictlan and used them to create humans. For ten points each:
[10] Identify this Aztec god, who was depicted as a plumed serpent. He was exiled by Tezcatlipoca, and left on a raft of snakes.
ANSWER: Quetzalcoatl
[10] This god created fire, from which Quetzalcoatl made a half sun. This god killed his sister Coyolxauhqui and made her head into the moon, and is depicted as a hummingbird.
ANSWER: Huitzilopochtli
[10] Another story tells of this goddess of worms, who attempted to throw herself into a fire to become the sun goddess but was too scared of the fire to carry through.
ANSWER: Metzli
- (14) Answer the following about homecomings for ten points each.
[10] This author wrote about Ruth deciding to stay with Teddy's family, leaving Teddy to return to their three children alone in *The Homecoming*. He also wrote a play where Ben and Gus receive orders from the title *Dumbwaiter*.
ANSWER: Harold Pinter
[10] This American wrote *The Homecoming* about a blues musician and the man who steals his songs, which was not included in his Pittsburgh Cycle.
ANSWER: August Wilson
[10] *Homecoming* is a collection of essays written by Ngugi wa Thiong'o, who was an author from this country. His *A Grain of Wheat* is set during the preparations for this country's independence day celebration.
ANSWER: Kenya
- (15) Answer the following about Amendments with odd ratification processes for ten points each.
[10] This most recently ratified amendment was pending before the states from 1789 until 1992. It prevents congressional pay raises from taking effect until after the next election.
ANSWER: 27th Amendment (or Article the second)
[10] Article the first, which is still pending before the states, was introduced in 1789 along with the 27th amendment and this first group of amendments, ten of which were quickly approved.
ANSWER: Bill of Rights
[10] The Corwin Amendment, also still pending before the states, would make slavery legal again. It was proposed as part of an 1860 Compromise by this Kentucky senator and was designed to prevent the Civil War.
ANSWER: John J. Crittenden

- (16) The King of Ward Six is killed with a pair of scissors, and the Girl With Dark Glasses looks after an orphaned boy. For ten points each:

[10] Identify this novel in which everyone except the doctor's wife suffers from the title condition.

ANSWER: Essay on Blindness (or Ensaio sobre a Cegueira)

[10] *Blindness* is a novel by this Portuguese author who wrote about the Iberian peninsula breaking off from Europe in *The Stone Raft*.

ANSWER: José de Sousa Saramago

[10] Jose Saramago also wrote this novel, where Senhor Jose works at the Central Registry of Births, Marriages, and Deaths and becomes obsessed with finding an "unknown woman."

ANSWER: All the Names (or Todos os nomes)

- (17) One of its most successful leaders was Hammurabi, who wrote his namesake code to govern it. For ten points each:

[10] Name this ancient Mesopotamian city-state and empire which built the Hanging Gardens.

ANSWER: Babylon

[10] After destroying the city of Babylon, a ruler of this empire, Sennacherib, was murdered by his two sons in this empire's city of Ninevah.

ANSWER: Assyria

[10] The first ruler with this name expanded Assyrian power into Anatolia and the Mediterranean during the Middle period. The third ruler with this name founded the Neo-Assyrian empire and conquered Babylon, Phoenicia, and Syria.

ANSWER: Tiglath-Pileser

- (18) Pi-orbitals do not allow rotation about their characteristic double bond, thus usually making them planar. For ten points each:

[10] Name this class of organic molecules identified by the presence of a double bond between two carbon atoms. They can undergo addition reactions in which diatomic reagents can add to each side of the double bond.

ANSWER: alkenes

[10] When the reagent in an addition reaction is an unsymmetrical protic acid, this rule named after a Russian chemist states that the hydrogen attaches to the carbon with fewer alkyl substituents.

ANSWER: Markovnikov's Rule

[10] Markovnikov's Rule is unnecessary to determine the outcome of hydrogenation reactions, in which symmetrical hydrogen gas is used to reduce alkenes to this class of organic compounds that do not contain multiple bonds.

ANSWER: alkanes

- (19) Far-right parties in Europe have had mixed success in recent elections. For ten points each:
- [10] Geert Wilders' Party for Freedom lost seats in this country's parliament, although 11 parties entered won seats.
ANSWER: Netherlands
- [10] Although the National Front won seats in the National Assembly of this country, its leader, Marine Le Pen, narrowly lost election. Her father Jean-Marie had previously lost this country's presidential election to Jacques Chirac.
ANSWER: France
- [10] This far-right Greek party kept most of its seats in May and June elections for the Hellenic Parliament, even after party spokesman Ilias Kasidiaris started hitting a female MP during a debate.
ANSWER: Golden Dawn
- (20) Identify the following about blue and yellow things in art for ten points each.
- [10] This artist painted a girl wearing a blue and yellow headdress and the titular piece of jewelry in his *Girl with the Pearl Earring*.
ANSWER: Jan Vermeer (or Johan Vermeer)
- [10] In 1990, the Bulgarian artist Christo installed thousands of these objects into the landscape, with blue ones used in Japan and yellow ones used in California.
ANSWER: umbrella
- [10] Kurt Schwitters wrote "Blue is the color of your yellow hair" in his poem *An Anne Blume*; Schwitters was a member of this post-World-War-I anti-art art movement which included Hannah Hoch and Marcel Duchamp.
ANSWER: dadaism
- (21) Identify the following about doctors in art for ten points each.
- [10] This artist portrayed a doctor explaining the musculature of a dissected human arm in his *The Anatomy Lesson of Dr. Nicolaes Tulp*.
ANSWER: Rembrandt Harmenszoon van Rijn (accept either)
- [10] This work by Thomas Eakins shows the titular professor overseeing a leg surgery in Jefferson Medical College.
ANSWER: The Gross Clinic
- [10] This American artist showed two hands holding a stethoscope and thermometer as his pocket watch read three o'clock in his lithograph *The Family Doctor*.
ANSWER: Grant DeVolson Wood