

Brookwood Invitational Scholars' Bowl

Round 12

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Tossups

1. **Standard Oil founder Henry Flagler made this city the terminus of a railroad built in 1885. 1980 race riots in this city were caused by police brutality to Arthur McDuffie. Giuseppe Zangara attempted to assassinate FDR in this city in 1933. In 2000, Janet Reno ordered that a seven-year old boy living in this city be returned to his father. This city's population shot up after the (*) Mariel boatlift. "Freedom flights" to this city began in 1959 after the overthrow of Fulgencio Batista. Many exiles living in this city joined with the CIA during the Bay of Pigs invasion. For 10 points, name this American city where many Cuban refugees migrate.**
ANSWER: Miami, Florida

2. **In a depressing story by this author, a boy's father throws his pet dark-brown dog out of a window. A novel by this author ends by describing the protagonist's "quiet manhood" as the sun finally comes out. This author fictionalized himself as the "correspondent" in a story based on his experience surviving a shipwreck. This writer brought naturalism to the US with a story about a Manhattan (*) "girl of the streets" named Maggie. This author of "The Open Boat" was 22 years old and had never served in a war when he wrote about battle-wound-craving soldier Henry Fleming. For 10 points, name this author of *The Red Badge of Courage*.**
ANSWER: Stephen Crane

3. **If a fluid is incompressible, the divergence of this quantity is zero. The sum of pressure head, elevation head, and this quantity's namesake head is constant. This quantity times diameter over viscosity equals the Reynolds number. This quantity times density times area is constant by the conservation of mass. This quantity is squared in (*) Bernoulli's equation, which shows that it goes up if pressure goes down. Volumetric flow rate equals this quantity times cross-sectional area. Often symbolized u , this quantity for a compressible fluid in a pipe cannot be greater than Mach 1. For 10 points, name this quantity measured in meters per second.**
ANSWER: fluid velocity [or speed; prompt on v; prompt on u]

4. **The *allegro agitato* section of one of these pieces begins with sharp G-chord quarter notes on beats 1 and 3 for two measures. Krzysztof Penderecki's [chris-TOFF pend-er-ESS-key's] work in this form was written to honor the Solidarity Party. In his composition in this form, Gabriel Fauré [fow-RAY] wrote a soprano solo for the (*) "Pie Jesu" [pe-AY JAY-soo] section. Johannes Brahms used the Lutheran Bible for the text of his "German" work in this form. The "Dies Irae" [DEE-uhs EE-ray] theme is the most-excerpted section from Verdi's work in this form. Mozart's work in this genre was finished by Franz Süssmayr. For 10 points, name this Catholic mass for the dead.**

ANSWER: requiem mass [or Messa da Requiem; accept mass for the dead or Missa pro defunctis until mention; accept mass of the dead or Missa defunctorum until mention; prompt on "mass"]

5. **This myth system believed righteous dead people lived on a mountain so holy you have to wash your face to look at it, and bad dead people lived in a building with walls made out of serpents. A red rooster wakes up dead people in this myth system. Fingernails of dead people in this myth system are used to build a (*) boat. Its underworld is named for the goddess Hel. Dead people in this mythology eat never-ending boar meat. In this myth system, half the dead soldiers go to Folkvangr, and the other half become Einherjar [AYN-hair-yar] at Valhalla. For 10 points, name this myth system in which the dead are plucked off battlefields by Valkyries to fight at Ragnarok.**

ANSWER: Norse myth [or Viking myth; or Scandinavian myth; or Germanic myth]

6. This character hides out for days in a hotel on Portland Street after unexpectedly appearing at Regents Park. Mr. Guest compares a letter scribbled by this character to the handwriting in a dinner invitation. After a young girl runs into this character, he calmly tramples on her body, in a story related by Enfield. This character (*) murders Danvers Carew, but then apparently kills himself with a vial of poison. Mr. Poole comes across this character's corpse, wearing clothes way too big for him. Dr. Lanyon tells Mr. Utterson about his utter fear of this man. For 10 points, name this character who appears whenever Dr. Jekyll drinks a potion.

ANSWER: Edward Hyde [or Mr. Hyde; do not accept or prompt on "Dr. Henry Jekyll" alone, but accept Dr. Jekyll and Mr. Hyde if they are both mentioned]

7. This good was the *subject* of the quote, "No power on earth dares to make war upon it." Kozhikode, India, was a center for the production of this raw good. Egypt became a leading producer of it under Muhammad Ali Pasha. Uzbekistan is the world's second-largest exporter of this good, but its production caused the (*) Aral Sea to shrink. Gandhi's Khadi movement was a boycott of this commodity from England. A "famine" on this good in England in 1861 was caused by a Union embargo of the Confederacy. For 10 points, name this crop that was "king" in the South.

ANSWER: cotton [prompt on textiles; prompt on calico]

8. A video created by this organization titled "A Message for Japan" is narrated by a member of "The Beatles." This organization created a video in which five men in red suits are put in a cage and dropped into a swimming pool. Croatian geoscientist Tomoslav Salopek is shown next to this organization's (*) black and white flag in an August 2015 photo. King Abdullah quoted Clint Eastwood in *Unforgiven* after seeing its video of a pilot burned alive. Jihadi John narrates many of this group's videos, such as the one in which Jim Foley is beheaded. For 10 points, name this terrorist group which publicizes its gruesome murders of Western journalists in Iraq.

ANSWER: Islamic State [or IS; or Islamic State of Iraq and the Levant; or ISIL; or Islamic State of Iraq and Syria; or ISIS; or the Islamic State of Iraq and ash-Sham; or Da'esh or Da'ish]

9. Gallstones are made of this compound. This compound, which has a ten-carbon alkyl chain on C-17, is synthesized from a 20-carbon precursor in a cyclization cascade. Membrane rafts have a high concentration of it. Synthesis of this compound through the mevalonate pathway is inhibited by statins like (*) Lipitor. It is a precursor to all bile salts and vitamin D. This compound gives the cell membrane its fluidity. In the body, it is carried by lipoprotein particles like HDL. For 10 points, name this steroid which accumulates in atherosclerosis, clogging the blood vessels.

ANSWER: cholesterol

10. The "rational basis" level of this doctrine was introduced in footnote 4 of *Carolene Products*. Hugo Black introduced the highest level of this doctrine as a way to defend "suspect classes" in *Korematsu v. US*. This doctrine, which is tiered into intermediate and strict scrutiny, is implied by the phrase "made in pursuance" in the (*) Supremacy Clause. The appointment of "midnight justices" led to the case which instituted this practice. John Marshall instituted this practice by striking down part of the Judiciary Act of 1789 in *Marbury v. Madison*. For 10 points, name this legal doctrine which gives the US Supreme Court the power to rule a law unconstitutional.

ANSWER: judicial review [prompt on review; accept judicial scrutiny before it is read]

11. Operation Woodrose targeted members of this religion. An empire that followed this religion won the Battle of Jamrud over Afghanistan, but lost 20,000 martyrs in two Afghan "holocausts." Kartarpur was a haven for members of this faith. The Mughals were supplanted by an empire (*) named for it. Members of this religion who argued for the Khalistan movement were massacred in November 1984. After Operation Blue Star, an invasion of this religion's Golden Temple at Amritsar, Indira Gandhi was murdered by her bodyguards. For 10 points, name this religion whose members include Manmohan Singh, which originated in the Punjab.

ANSWER: Sikhism

12. Daniel Wadsworth, namesake of the Wadsworth Atheneum, patronized this movement. A member of this art movement painted a waterfront view of a decadent city, then used the same perspective for paintings titled *Destruction and Desolation*. An artist from this movement was painted standing on a cliff, holding a sketchbook, and chatting with a poet. The (*) founder of this movement made the series *The Course of Empire*. This school's later years faded into Luminism, with works like *Heart of the Andes*, by Frederic Edwin Church. For 10 points, name this school founded by Thomas Cole, which often featured landscapes around a New York river.
ANSWER: Hudson River School [prompt on luminism or word forms until it is read]

13. This thinker used the example of picking an apple to claim that an individual earns property by putting labor into it, up to the spoilage condition. After an upflare in Catholicism, this philosopher wrote a letter insisting that a magistrate has no right to force religion on people. This man distinguished legislative, executive, and federative power in a text which argues that (*) people have the right to regress to the state of nature if it is preferable to tyranny. His insistence on natural rights of life, liberty, and property influenced Thomas Jefferson. For 10 points, name this English political philosopher who wrote *Two Treatises of Government*.
ANSWER: John Locke

Note to moderator: PPI is read "PP one", PPII is read "PP two"; PPIII is read "PP three." ZAMS is read "ZAMS".

14. This process forms a carbon resonance named for Hoyle at 7.65 mega-electronvolts. This process first begins at the ZAMS point. The rate of this process suddenly picks up during carbon detonation. The PPI, PPII, and PPIII chains are variants of this process, which forms electron neutrinos and also generates (*) di-protons in its first step. At high temperatures, a helium flash may lead to a large increase in the rate of this process using only alpha particles. Brown dwarfs cannot sustain this process with only hydrogen. For 10 points, name this nuclear reaction which powers the Sun, the combination of small nuclei, as opposed to nuclear fission.

ANSWER: nuclear fusion [or nucleosynthesis; or proton-proton chain; or CNO cycle; or triple alpha process]

15. 51 years after writing a poem, this author published a sequel to it subtitled "Sixty Years After." The fifth line of every nonet ends in the word "Camelot" in a poem by this author that mentions a "mirror crack'd from side to side." This author based a twelve-poem cycle on *Le Morte d'Arthur*. All six stanzas of another of his poems end (*) "six hundred." He wrote "Break, Break, Break" for the death of his lover A.H. Hallam. This author penned, "To strive, to seek, to find, and not to yield" in "Ulysses". He wrote about soldiers plunging into the "Valley of Death" in "The Charge of the Light Brigade." For 10 points, name this Victorian poet and baron.

ANSWER: Alfred, Lord Tennyson

16. Charles Minard used a gradually-narrowing westward-line in a famous map set during this year. In this year, the Bagration [buh-grate-ee-ON] fleches [fletches] were built and the first battle at Smolensk was fought. Count Rostopchin ordered his own capital city be burned to the ground during this year. "General Winter" began to destroy the (*) Grand Armée during this year. The War of the Sixth Coalition began near the end of this year, after Mikhail Kutuzov won a victory at the Battle of Borodino during the "Patriotic War". For 10 points, name this year in which Napoleon led an unsuccessful invasion of Russia, commemorated by a Tchaikovsky overture.

ANSWER: 1812

17. Inhabitants of this island love to eat fried plantains mashed together with *chicharrón* in a concoction called *mofongo*. A small frog called the *coquí* [coh-KEE] is native to this island's mountainous Yunque [YOON-kay] rainforest. The world's largest radio telescope is at Arecibo on this island. Its capital contains a 16th-century fort called the (*) Morro. A "White House" on this island is the mansion owned by its colonial governor Ponce de Leon. An independence referendum on this island failed in 2012, which is a problem, since it declared bankruptcy in 2015. For 10 points, name this commonwealth of the US in the Caribbean.

ANSWER: Puerto Rico

18. A non-equilibrium-related rule named for Le Chatelier gives this property for a mixture. The open-cup method is used for compounds with this property. Inerting works because this property exists only between a compound's UEL and LEL. An NFPA diamond has sections for reactivity, health, and this property.

Compounds with this property are stored in (*) yellow cabinets since they have a low flash point. Materials with this property are rapidly oxidized to CO₂ and water. Ethers and most other organic solvents have this property, as does hydrogen. For 10 points, name this property possessed by compounds that will react with air and burn.

ANSWER: flammability [or burning; or turning on fire; or obvious equivalents; or lower explosive limit; or upper explosive limit; or propensity for explosions any similar answers]

19. A character played by this actor is fooled into thinking he's looking at a mirror because Pinky imitates his every move. This actor is told, "There ain't no sanity clause!" in a film where he lets 15 people into a tiny cruise ship stateroom. He quipped, "One morning I shot an elephant in my pyjamas" in a film where he played explorer Captain Spaulding. This actor portrayed the incompetent ruler of Freedonia, Rufus T. (*)

Firefly. He wore horn-rimmed glasses, a large moustache, and smoked a cigar, in films like *A Night at the Opera* and *Duck Soup*. For 10 points, name this comedian, who performed in movies with brothers Chico and Harpo.

ANSWER: Groucho Marx [prompt on Marx; prompt on Marx Brothers]

20. This play repeats the line "Nothing to be done." An incomprehensible speech in this play ends in a melee, then the words, "tennis, the stones, so calm, Cunard, unfinished." Immediately after, a character exclaims, "There's an end to his thinking" and tramples on a bowler hat. This play's setting is directed as "A (*)

country road. A tree. Evening." A talking horse and his master go mute and blind between its acts. Both acts of this play end in the stage direction, "They do not move." This play's protagonists consider suicide and do meet Pozzo and Lucky. For 10 points, name this play in which Vladimir and Estragon wait for a friend, by Samuel Beckett.

ANSWER: Waiting for Godot [or En attendant Godot]

TB: The speaker is interrupted from writing a poem by the "sudden, hot, sharp stink" of one of these creatures in a Ted Hughes poem titled for a "thought" one. One of these animals claims, "What is essential is invisible to the eye." A character named for these animals seduces Celia, the wife of his son Corvino. One

named (*) Reynard appears in the "Nun's Priest Tale." The Little Prince tames one. Regina Hubbard Giddens appears in a Lillian Hellman play named for "little" ones. Mosca serves a greedy lord named for these animals in Ben Jonson's *Volpone*. For 10 points, name these animals, one of whom disdains "sour" grapes in an Aesop fable.

ANSWER: foxes [or the thought-fox; or *The Little Foxes*]

Bonuses

1. This element's electron configuration ends $4s^1 3d^5$ [four s one three d five], a violation of the Aufbau principle. For 10 points each:

[10] Name this transition metal which is added to steel to make stainless steel. Its symbol is Cr.

ANSWER: chromium [or Cr]

[10] Chromate salts are extremely toxic, but they're commonly used in organic chemistry as these reagents. This type of compound would turn an alcohol into a ketone.

ANSWER: oxidizing agents [or oxidizers]

[10] As a result, chromium oxidizes this compound to acetaldehyde and changes color, in a well-known analytical test. This compound's molecular formula is $\text{CH}_3\text{CH}_2\text{OH}$ [C H three C H two O H].

ANSWER: ethanol [or ethyl alcohol; prompt on alcohol]

Note to moderator: I have no idea how to pronounce the leadin to this bonus—so use your best judgment.

2. This polity is led by Golbasto Momarem Evlame Gurdilo Shefin Mully Ullly Gue and by his obnoxious admiral Skyresh Bolgolam. For 10 points each:

[10] Name this island which appoints government servants by their ability to walk on a tightrope. The palace of this island, which is inhabited by Little-Endians, is saved from a fire by a vast torrent of urine.

ANSWER: Lilliput

[10] Lilliput is the first island visited by this character in a novel by Jonathan Swift.

ANSWER: Lemuel Gulliver [or Gulliver's Travels]

[10] On his final voyage, Gulliver visits the land of the Huoyhnhnms, which is inhabited by these mutant humans, whom Gulliver describes as being akin to animals.

ANSWER: Yahoos

3. Along with Chano Pozo, this musician helped pioneer Afro-Cuban jazz with the 1947 tune "Manteca." For 10 points each:

[10] Name this bandleader and composer of "A Night in Tunisia." The title food item is shouted twice after a repeated motif in this man's composition "Salt Peanuts."

ANSWER: "Dizzy" Gillespie [or John Birks Gillespie]

[10] Along with Charlie Parker, "Dizzy" Gillespie was at the forefront of the creation of this jazz style that emphasized quick tempos and improvisation.

ANSWER: bebop [or bop]

[10] A 1960 Gillespie album was titled as a *Portrait* of this earlier bandleader with a royal nickname. He performed of the standards "Take the 'A' Train" and "It Don't Mean a Thing (If It Ain't Got That Swing.)"

ANSWER: Edward "Duke" Ellington [or "Sir Duke"]

4. Each installment of this film franchise takes place in an apocalyptic Australian Outback. For 10 points each:

[10] Name this movie franchise that starred Mel Gibson in the first three films and Tom Hardy in the 2015 film.

ANSWER: Mad Max

[10] In *Mad Max: Fury Road*, Max teams up with this female Imperator of Immortan Joe. At the beginning of the film, she drives an armored tanker to collect gasoline from Gas Town.

ANSWER: Imperator Furiosa

[10] Imperator Furiosa was played by this South African actress who played Seth Macfarlane's love interest Anna in *A Million Days to Die in the West*. She won an Oscar for her portrayal of serial killer Aileen Wuornos in *Monster*.

ANSWER: Charlize Theron

5. Answer the following about the tumultuous career of Jacques Coeur [CUR], for 10 points each:

[10] Jacques Coeur served, and possibly poisoned the mistress of, French king Charles VII, after the excruciating end of this long war fought between England and France.

ANSWER: Hundred Years' War

[10] Coeur also served as a messenger between Pope Nicholas V and Felix V, the last person to hold this title. This title was traditionally given to the leader of the Catholic Church at Avignon during the Great Schism.

ANSWER: antipope [do not accept or prompt on "Pope"]

[10] Coeur eventually died on service to Pope Calixtus III on this Greek island. This island was the site of an 1822 massacre which attracted much popular support for the Greek War of Independence.

ANSWER: Chios

6. Answer the following about archaeology in North America, for 10 points each:

[10] The Cahokia archaeological site is mostly comprised of these topological features, which were constructed by moving vast quantities of earth. The Hopewell tradition constructed several of these objects in Ohio.

ANSWER: mounds [or Mound-Builders]

[10] At Mound 72 at Cahokia, archaeologists unearthed dozens of these objects, which served as projectile points for early humans. These triangular pieces of stone or obsidian were useful for hunting.

ANSWER: arrowheads [prompt on arrows]

[10] When not using bows and arrows, ancient North Americans may have made use of this tool, a wooden shaft that propelled darts at great speeds. One was unearthed with the Kwaday Dan Tsinchi Canadian Ice Man.

ANSWER: atlatl [OTT-el-OTT-el]

7. Answer the following about lines on circuit diagrams, for 10 points each:

[10] One of these devices is represented by two parallel lines of equal length. These devices store energy inside of electric fields.

ANSWER: capacitors

[10] These other devices are drawn using lines of unequal length, labelled with positive and negative terminals. These devices provide electromotive force to a circuit.

ANSWER: batteries [or battery]

[10] Parallel lines separating two squiggly lines represent these objects, which consist of a coil of wire wrapped around an iron core, which is connected to another coil of wire, which has a different number of turns.

ANSWER: transformer [prompt on inductor; prompt on mutual inductor; prompt on solenoid]

8. This island lost a 38-minute war to the British Empire. For 10 points each:

[10] Name this island where Tippu Tip exchanged cloves for slaves. It was the center of the sub-Saharan African slave trade.

ANSWER: Zanzibar

[10] This Chinese eunuch admiral led diplomatic expeditions under the Ming dynasty and visited Zanzibar, among many ports around the Indian Ocean.

ANSWER: Zheng He

[10] Zanzibar eventually joined with mainland Tanganyika to form this modern-day East African country.

ANSWER: United Republic of Tanzania

9. This hero's helmsman drowns as recompense for an otherwise safe voyage. For 10 points each:

[10] Name this hero who founds what becomes the city of Rome after defeating Turnus in an epic battle.

ANSWER: Aeneas

[10] Palinurus dies soon after this event in Book V of the *Aeneid*, which occurs exactly one year after Anchises' death. Juno and Iris conspire to torch Aeneas' fleet during this event.

ANSWER: Anchises' funeral games [or athletic competitions; or similar answers]

[10] Aeneas is mostly hated by Juno and favored by this Roman goddess in the *Aeneid*. This goddess, his mother, is the Roman counterpart of Aphrodite.

ANSWER: Venus

10. Nineteen of these punctuation marks are used over sixteen lines of verse in "I heard a Fly buzz when I died." For 10 points each:

[10] Name this punctuation mark which is used at the end of nearly every line of "Much Madness is divinest Sense" and "Because I could not stop for death."

ANSWER: dash [or a hyphen]

[10] Dashes and slant rhymes were especially prevalent in the poetry of this reclusive "Belle of Amherst."

ANSWER: Emily Dickinson

[10] This other dash-heavy Dickinson poem ends with the stanza, "I've heard it in the chilliest land--/And on the strangest sea--/Yet --never-- in extremity/It asked a crumb -- of me." It describes a "bird that kept so many Warm."
ANSWER: "**Hope is the thing with feathers**" [or **314**]

11. This composer opened his career under patron Prince Esterhazy with three successive works entitled "Morning," "Noon" and "Evening." For 10 points each:

[10] Name this Austrian composer known as the "Father of the Symphony." A sudden *fortissimo* chord gives his 94th symphony the nickname "Surprise."

ANSWER: Joseph **Haydn**

[10] Haydn achieved the intended effect of the "Surprise" Symphony in part by scoring the lower strings to play *pianissimo* with this string technique, which involves plucking the string with your fingers instead of using the bow.

ANSWER: **pizzicato**

[10] Haydn caused a fuss when he used two of these instruments instead of a standard orchestral instrument for his "Philosopher" symphony. Sibelius' "The Swan of Tuonela" is a solo piece for this instrument.

ANSWER: **English horn** [or **cor anglais**] (the English horns were used in lieu of oboes)

12. These animals were ferried across the Rhone River on rafts covered by dirt, according to accounts by Livy and Polybius. For 10 points each:

[10] Name these animals, many of whom died on a treacherous crossing of the Alps in 218 BCE.

ANSWER: Hannibal's war **elephants**

[10] Hannibal's war elephants were effective in the pre-Alps days of this war, the second one fought between Rome and Carthage.

ANSWER: Second **Punic War**

[10] Hannibal turned around the disastrous crossing of the Alps with this decisive 217 battle, during which Gaius Flaminius walked straight into an ambush and Hannibal effectively executed a turning movement.

ANSWER: Battle of Lake **Trasimene**

13. Name some poets who wrote about the lies of war, for 10 points each:

[10] In his most well-known poem, this author wrote, "My friend, you would not tell with such high zest/To children ardent for some desperate glory/The old lie, Dulce et Decorum est/Pro patria mori."

ANSWER: Wilfred **Owen**

[10] In this author's poem "my sweet old etcetera," the speaker reflects on his father's enthusiasm for patriotism during war. This author of "anyone lived in a pretty how town" wasn't a big fan of capitalization.

ANSWER: ee **cummings** [or Edward Estlin **Cummings**]

[10] This author wrote a poem titled for a casualty of the Civil War, Knowl Hoheimer, who looks up at the marble angel on his tomb, inscribed "Pro Patria." This American created characters like Lucinda Matlock and Thomas Rhodes.

ANSWER: Edgar Lee **Masters**

14. Name some diseases associated with wolves, of course none of which is lupus, since it's never lupus, for 10 points each:

[10] Wolf bites occasionally can transmit this common zoonotic viral disease to humans. It leads to hydrophobia and inflammation of the brain.

ANSWER: **rabies** [prompt on **hydrophobia**]

[10] Wolves actually control the spread of this disease, which is positively correlated with deer populations. This zoonotic disease in humans is diagnosed by a characteristic bullseye rash.

ANSWER: **Lyme** disease

[10] The canine form of this disease is caused by an adenovirus, unlike the human version, which is caused by RNA viruses. A sexually-transmitted form of this disease is treated by the exorbitantly-expensive drug Solvaldi.

ANSWER: **hepatitis** [or **hepatitis C**; or other forms of hepatitis]

15. The Ner Tamid [NAIR taw-MEED], or eternal light, hangs in front of this object, which is covered by a curtain called the parochet [par-owe-HET]. For 10 points each:

[10] Name this most important part of the synagogue, the receptacle where the Torah scrolls are kept.

ANSWER: the **ark** [or **Aron** HaKodesh; do not accept or prompt on "ark of the covenant"]

[10] The Torah is removed from the ark, and aliyot are read, during this coming-of-age ceremony in Judaism which occurs at the age of 13 for males and 12-and-a-half for females.

ANSWER: **Bar Mitzvah** [or **Bat Mitzvah**]

[10] The Bar Mitzvah ceremony is described not in the Torah, but in this collection of rabbinical Jewish law. Rashi [RAW-shee] wrote some famous commentaries on this book.

ANSWER: **Talmud** [prompt on **Mishnah**; prompt on **Gemara**; prompt on **Tanakh**]

16. In 2013, Eric Holder announced that the Justice Department would start rolling back these laws after lots of backlash from judges. For 10 points each:

[10] Name these laws which require certain sentences to be handed down for drug-related offenses.

ANSWER: **mandatory minimum** sentencing laws [or **man-min**]

[10] Unpopular mandatory minimum sentencing on this drug was part of the reason that it has been legalized in Colorado and Washington state. It is allowed for medical reasons in 24 states.

ANSWER: **marijuana** [or **cannabis**; or **hemp**; or **pot**; or other slang names]

[10] This Republican presidential candidate crossed the aisle to join Cory Booker in writing a bill to end the federal government's ban on medical marijuana. In 2014, this man publicly called for the resignation of John Brennan.

ANSWER: Rand **Paul** [or Dr. Randal Howard **Paul**]

17. Two numbers are said to be congruent if this value is the same for each of them after division. For 10 points each:

[10] Name this value, the amount left over after division. Modular arithmetic makes heavy use of it.

ANSWER: **remainder** [prompt on **modulus**]

[10] All numbers with this property are defined to be congruent to one mod two. An unsolved problem in mathematics asks if any perfect numbers have this property.

ANSWER: **odd** numbers

[10] If the sum of two of these numbers is prime, then the prime number must be congruent to one, modulo four. These numbers, mod 10, must be congruent to 1, 4, 5, 6, 9, or 0.

ANSWER: perfect **squares**

18. Varina Farms was set up to help with this crop's production. For 10 points each:

[10] Name this cash crop first grown in the Americas by colonist John Rolfe.

ANSWER: **tobacco** [or Orinoco **tobacco**]

[10] Rolfe planted his tobacco seeds in his residence at this first permanent English colony in America.

ANSWER: **Jamestown** Colony

[10] Rolfe's tobacco would have never made an impact if Jamestown Colony hadn't been saved by this governor who arrived in 1610. Another colony would be named for this man's royal name.

ANSWER: Thomas **West**, 3rd Baron **De La Warr** [accept either underlined part]

19. This activity is apparently a form of "music-making" for every independent player, and especially for the Ludi Magister. For 10 points each:

[10] Name this secret activity practiced by those in the Castalian Order. Joseph Knecht becomes a master of it, then quits and drowns.

ANSWER: the **Glass Bead Game** [or *Das Glasperlenspiel*]

[10] *The Glass Bead Game* was the final novel of this German Nobel Laureate who also wrote *Siddhartha* and *Steppenwolf*.

ANSWER: Hermann **Hesse**

[10] *Steppenwolf* and *The Glass Bead Game* are both examples of this genre of novel, typified by *Wilhelm Meister's Apprenticeship*. These coming-of-age novels trace a young character's moral and psychological development.

ANSWER: **bildungsroman** novels

20. Name some Rembrandt paintings, for 10 points each:

[10] This massive military portrait depicts the shooting company of Franz Banning Cocq, but gets its more common name because it was once coated in a very dark varnish.

ANSWER: *The Night Watch*

[10] A man wearing a black top hat and black coat operates on a corpse in this Rembrandt scene which was adapted by Thomas Eakins in *The Gross Clinic*.

ANSWER: *The Anatomy Lesson of Dr. Nicolaes Tulp*

[10] Rembrandt made an etching and a painting of this scene, in which a man stands on a ladder and removes some nails. In Rubens' painting with this title, part of a triptych, John wears a bright red robe and supports Christ's body.

ANSWER: *The Descent from the Cross*