

Brookwood Invitational Scholars' Bowl

Round 8

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Tossups

1. An approach to this subject called *unani* was divided into seven principles like *arkan* and *mizaj* by Arabic scholars like Rhazes [ROZZ-ees]. Apollonius of Citium compiled a “Corpus” concerning this subject, written by an author from Cos. A philosopher of this subject criticized Aristotle’s “one-seed” conception theory--that servant of Marcus Aurelius was named (*) Galen. Avicenna wrote a canon on this subject. This subject was dominated by a theory that described people as choleric, melancholic, phlegmatic, or sanguine, depending on overexpression of four humors. For 10 points, name this subject whose classical practitioners included Hippocrates. ANSWER: medicine [or medical science; or being a doctor; prompt on science; prompt on biology or chemistry; prompt on philosophy]

2. A character created by this author exclaims, “A man is not a piece of fruit”, and contrasts being “liked” with being “well-liked” in a flashback. Another of his characters shrieks, “She makes me drink blood!” to explain why seven children of Goody Putnam died. This author directed no walls to be put on stage in a play whose protagonist regrets not going to (*) Alaska during the gold rush. That play ends when the protagonist crashes his car to give his sons the insurance money. Abigail gets Elizabeth, then John Proctor, convicted of witchcraft in this author’s McCarthy-era play *The Crucible*. For 10 points, name this author of *Death of a Salesman*. ANSWER: Arthur Miller

3. The tail fieldlines of this object’s magnetic field take on a corkscrew shape. Gerard Kuiper discovered a tiny satellite of this object which orbits perpendicular to the ecliptic plane. This object is the most distant body to obey Bode’s [BOW-dees] Law. This planet’s weak magnetosphere is tilted about 60 degrees relative to its axis of rotation, and that axis is oriented about (*) 90 degrees from the ecliptic, causing it to have equinoxes in June and December. This planet, discovered by William Herschel, has moons named for Shakespearean characters, like Miranda and Oberon. For 10 points, name this ice giant which is between Saturn and Neptune. ANSWER: Uranus

4. This man performs an instrumental cadenza and sings a wordless chorus in his band’s recording of King Oliver’s “West End Blues.” In 1950, this artist was inspired to record “C’est Si Bon” in America after hearing it at the Nice Jazz Festival. This leader of the Hot Five and Hot Seven inserted his own name into the lyrics of his chart-topping cover of the musical song (*) “Hello, Dolly!”. He recorded an early example of scat singing in his 1926 song “Heebie Jeebies.” This man raspily sang about “trees of green” and “red roses” in another song. For 10 points, name this jazz trumpeter nicknamed “Satchmo,” the singer of “What a Wonderful World.” ANSWER: Louis Armstrong [accept “Satchmo” until mention]

5. In July 2015, this country’s leader made a Palestinian refugee girl sob on live TV. This country is the “plus one” in the “P5+1” Iran nuclear negotiators. The “Alternative for <this country>” political party is strongly linked to its anti-Muslim PEGIDA marches. This European country accepted one million Syrian refugees with open arms in 2015, but experienced dozens of sexual assaults by North Africans on New Year's Day 2016. A citizen of this nation (*) crashed a plane into the French Alps in March 2015. This country pushed for stricter austerity in Greece. For 10 points, name this largest economy in Europe, led by Angela Merkel. ANSWER: Federal Republic of Germany [or oder Bundesrepublik Deutschland]

6. A protagonist of this novel finally realizes, in the final chapter, that he loves his son after seeing a lightning bolt strike a tree. A psychic character in this novel gives apparently infallible advice while he’s sleeping. Dolly is the go-between for this novel’s two main protagonists, one of whom marries Dolly’s sister Kitty. It begins by describing (*) Stiva’s scandalous affair with his governess. This novel, which famously opens by asserting that “Happy families are all alike”, contrasts country-dweller Levin with city-dwellers like Count Vronsky. For 10 points, name this epic novel whose title character jumps under a train, written by Leo Tolstoy. ANSWER: Anna Karenina

7. William Rowe imagined a fawn trapped in a forest fire in an essay defending this concept's evidential impact. JL Mackie's essay about this concept popularized the inconsistent triad, prompting Alvin Plantinga to formulate a defense of free will to explain this concept. Augustine's privation theory explains it as the absence of its counterpart. Hannah Arendt noticed the (*) "banality" of exponents of this concept. A theodicy explains the existence of this concept. The Epicurean paradox asks how this concept can co-exist with a benevolent God, which is called its namesake problem. For 10 points, name this concept, often contrasted with "good."
ANSWER: evil [prompt on synonyms like "badness"]

8. The namesake reference frame of this object has zero total momentum. This object is at the origin in barycentric coordinates. Euler's first law sets momentum proportional to its velocity. The distance between a line and this object is squared in the parallel axis theorem. The (*) coordinates of this object are calculated by integrating the density times position over space. Rotational inertia is usually calculated for an axis passing through this object. This point is at the intersection of two plumb lines. The lower this point is, the more stable the system. For 10 points, name this point often at the centroid, which is where an object will freely balance.
ANSWER: center of mass [or CM; prompt on center of gravity; prompt on centroid]

9. Andre de Longjumeau carried a failed offer of French alliance with this empire. This empire employed the Pony Express-like *yam* communication system. Like the Turks, people in this empire followed Tengrism. This empire lobbed dead bodies into the Genoan city of Caffa, starting the Black Death in Europe. It used a trebuchet to beat the Southern (*) Song at Xiangyang [SHAWN-yang]. This empire's army was reinforced by light cavalry called mangudai who could allegedly ride for days, drinking only horse milk. The empire's namesake "peace" ended with the fall of the Golden Horde and Yuan Dynasties. For 10 points, name this land empire founded by Genghis Khan.
ANSWER: Mongol Empire [or the Mongols; or Mongolia; or Golden Horde or Yuan until they are read, respectively]

10. Paul Nash's painting *Totes Meer* depicts this war. In a painting set during it, a man wearing a blue-collared shirt protests a new school. Elizabeth Shoumatoff made the *Unfinished Portrait* watercolor of a politician during this war. Courbet's *The Stone Breakers* was destroyed during this war. A family is served a large turkey on (*) Thanksgiving in an entry from a series of four paintings made during this war. An American artist during this conflict drew a factory worker holding a gun on her lap for the *Saturday Evening Post*. For 10 points, name this war during which Norman Rockwell made propagandist images like Rosie the Riveter.
ANSWER: World War II [or WWII; or the Great Patriotic War]

11. The classic method to generate pure oxygen and nitrogen is to do this process to air at cryogenic temperature. The outlet streams of this process are called the bottoms and overhead. During this process, the rectifying and stripping sections intersect at the feed. Three-neck round-bottom flasks are attached to packed columns for this process in the lab. No matter the (*) reflux ratio, the naive form of this technique cannot break an azeotrope. The tallest columns at an oil refinery are used for this process, to fractionate petroleum. For 10 points, name this lab technique that separates liquids based on boiling point, which is used to purify ethanol.
ANSWER: distillation

12. Simonides [sigh-MAWN-i-dees] pioneered the form for a type of these works called the *epinikion*. During the performance of these works, the chorus moves from the right side to the left side, then moves back during the antistrophe. Pindar wrote some of these works titled for victory. In response to one of these poems by Wordsworth intimating about (*) immortality, Coleridge wrote one titled for dejection. One in Latin ends with the invocation "Carpe diem." Keats wrote five of these poems in 1819, including one "To Autumn" and one "to a Nightingale." For 10 points, name this poetic form pioneered by Horace, a poem written in praise of someone or something.
ANSWER: ode [or epinikion until it is read; or victory odes until it is read; prompt on poems or word forms until read; prompt on strophe; prompt on antistrophe; prompt on epode]

13. The first chairman of the SEC had this last name. A lawyer with this surname chaired the McClellan Commission to arrest archrival Jimmy Hoffa. A lieutenant with this surname heroically saved his crew of the *PT-109*. A lawyer with this surname was photographed as a baby saluting his father's casket, but died in a (*) plane crash near Martha's Vineyard. A politician with this surname killed Mary Jo Kopechne when he drove off a bridge. A president with this surname wrote *Profiles in Courage* and faced the Cuban Missile Crisis. For 10 points, give this surname of Attorney General Robert and his brother John Fitzgerald.

ANSWER: Kennedy [or Robert F. Kennedy; or John F. Kennedy; or John F. Kennedy Jr.; or Joseph Kennedy, Sr.]

14. A 1920 book about the "Rising Tide" of this concept, written by Lothrop Stoddard, followed up an essay by Arthur de Gobineau which explains how it leads to inequality. John Howard Griffin got exiled to Mexico for writing a memoir about this property. This concept, language, and culture, title a Franz (*) Boas essay collection. *The Bell Curve* controversially asserts that this factor influences intelligence. Anti-miscegenation laws prevent marriage based on differences in it. In *US v. Armstrong*, the Supreme Court upheld some profiling based on this factor. For 10 points, name this concept, examples of which include Caucasian and African-American.

ANSWER: race [or racism; or word forms; or skin color; prompt on ethnicity; technically race and skin color are *not* the same thing, but the distinction here is unclear in a few clues, so accept either]

15. Operation Haze was instituted to limit the spread of 1997 forest fires in this country. In this nation's "Mega Rice Project", its peat swamp forests were destroyed in the 90s. In 2008, a lungless frog was discovered in this country. To maintain its position as the world's leading exporter of palm oil, this nation became the world's leader in (*) deforestation, surpassing Brazil in 2012. Two of the three species of tigers once native to this country are now extinct. This nation elected reformist president Joko Widodo in 2014. Most orangutans live in this country. For 10 points, name this country whose islands include Sulawesi, Sumatra, and Java.

ANSWER: Republic of Indonesia

16. The sixth part of this poem begins as a dialogue between "First Voice" and "Second Voice." A character in this poem remarks, "I fear thee and thy glittering eye, and thy skinny hand so brown!" This poem describes a fearsome Night-Mare who represents Life-in-Death. It ends with a line about a guy who awoke the next morning, "a sadder and wiser man." This poem describes a "painted (*) ship upon a painted ocean" and "slimy things" that "did crawl with legs". It coined the phrase, "Water, water everywhere." The speaker tells the Wedding-Guest that he shot an Albatross. For 10 points, name this "rime" written by Samuel Taylor Coleridge.

ANSWER: "The Rime of the Ancient Mariner"

17. OPROP! leaflets were dropped over this country during World War II. This country, which was once known as Hitler's "canary", was invaded after its leader sent Hitler a rude reply to a birthday card. This "model protectorate" was invaded on Rosh Hashanah. A scientist from this country convinced a neighbor's king to accept this country's Jews in 1943. This nation's (*) king mythically resolved to wear the yellow star of David. The German invasion of this country lasted all of six hours, but most of its Jews escaped to Sweden. For 10 points, name this country which was led by Christian X during World War II, when Nazis occupied Copenhagen.

ANSWER: Kingdom of Denmark

18. The products of magno-cellular neurons are *stored* in this organ. This structure is in the middle of an "axis" activated by stress. It's located at the base of the sella turcica in the sphenoid bone. Somatotrophic cells in this organ are activated an hour after the onset of sleep. A tumor on it leads to Cushing's disease due to an excess of (*) cortisol in the body. The posterior portion of this organ stores oxytocin and prolactin. This structure regulates ovulation by secretion of FSH and LH after it is activated by GnRH. It also releases ADH and growth hormone upon stimulation by the hypothalamus. For 10 points, name this gland at the base of the brain.

ANSWER: pituitary gland [or anterior pituitary; or posterior pituitary]

Moderator note: Please read the note below to the teams before reading the tossup.

19. Teams: We are looking for an answer like “gods of war” in this tossup.

12 asanas constitute a namaskara named for the Hindu god who controlled this domain. Karna, the son of that god, is Arjuna’s main competition in the *Mahabharata*. Hanuman forced the god of this domain to become his teacher by simultaneously standing on two mountains. A (*) goddess of this domain gave her grandson a sword, a mirror, and a jewel. The Hindu god of this domain, Surya, is drawn by seven horses in his chariot. Emperor Jimmu descended from a goddess of this domain who hid in a cave after her brother threw a horse at her. For 10 points, name this domain of the Shinto goddess Amaterasu and the Egyptian god Ra.

ANSWER: solar deities [or Sun deities]

20. This composer’s aria “Ombra mai fu” has been re-arranged for instruments as “Largo from *Xerxes*.” One of this composer’s works has a 12/8 (“twelve eight”) movement with a name translating as “peace” that precedes the fanfare “La Rejouissance.” One of his oratorios begins a vocal fugue on the line “And He shall (*) reign forever and ever.” This man composed a suite for a celebration George II was holding at Green Park. This composer of *Music for the Royal Fireworks* is best-known for an oratorio with sections like “Behold the Lamb of God.” For 10 points, name this German-English composer of *Messiah*, which includes his “Hallelujah Chorus.”

ANSWER: George Frideric Handel

TB: This author created a character who will die because he forgot to treat a thorn scratch on his leg with iodine. He described an iceberg only one-eighth above water in *Death in the Afternoon*. Apocryphally, this man wrote a short story that reads, “For sale. Baby shoes. Never worn.” George and Al are Chicago mobsters in this author’s story “The (*) Killers”, one of his many Nick Adams stories. This author created a character who idolizes Joe diMaggio and brings a skeleton of a fish back to shore after it's eaten by sharks. In that novella, Santiago catches a marlin in the Gulf Stream. For 10 points, name this author of *The Old Man and the Sea*.

ANSWER: Ernest Hemingway

Bonuses

1. The Madres of the Plaza de Mayo gathered to memorialize these people. For 10 points each:

[10] Give this term, usually rendered in Spanish, which refers to the thousands of people who were killed or tortured under Jorge Videla's watch during the Dirty War.

ANSWER: **desaparecidos** [or "the **disappeared**"; do not accept or prompt on "descamisados"]

[10] The Dirty War took place in the 70s in this South American country, which later fought the Falklands War against Britain.

ANSWER: **Argentina** [or **Argentine Republic**]

[10] Videla led a coup against this woman, the president of Argentina between 1974 and 1976 after the death of her husband.

ANSWER: **Isabel** Martinez de Peron [prompt on **Peron**; accept **I. Peron** or anything to distinguish her from "Eva Peron" or "Evita"]

2. The cap of invisibility and these objects are given to Perseus to help him kill Medusa. For 10 points each:

[10] Name these objects which traditionally were owned by Hermes.

ANSWER: **winged sandals** [or **talaria**; prompt on partial answer; accept equivalents like **flying shoes**]

[10] Perseus may also have received a sword made of this material from Zeus to kill Medusa. This material was used by Cronus to castrate his father.

ANSWER: **adamantine** [or **adamant**; don't accept or prompt on "adamantium", which is what Wolverine is made out of]

[10] Perseus also brought along a wallet to store Medusa's head, since people who looked at the Gorgon's head died immediately in this way. In some myths, Perseus caused Atlas to undergo this transformation.

ANSWER: turn to **stone** [or **petrified**; or word forms; or obvious equivalents]

3. Lewis structures, resonance, and this phenomenon are the central tenets of valence bond theory. For 10 points each:

[10] Name this phenomenon which produces sp^3 [S-P-three] and sp^2 [S-P-two] orbitals from s and p orbitals.

ANSWER: orbital **hybridization**

[10] Orbital hybridization wrongly predicts that the four bonding orbitals of this compound are at the same energy. This gas is the major component of natural gas.

ANSWER: **methane** [or **CH₄**]

[10] The more s character in its hybridization, the greater this quantity is for the atom. This quantity determines the relative placement in energy of two atomic orbitals combining to form a molecular orbital.

ANSWER: **electronegativity**

4. Answer some questions about famous uses of the artistic technique *sfumato*, for 10 points each:

[10] Sfumato is best exemplified by the smooth shading around the eyes of the enigmatically-smiling girl in this Leonardo da Vinci portrait.

ANSWER: **Mona Lisa** [or *La Gioconda*; or *La Joconde*]

[10] da Vinci's Louvre version of this scene is noted for its use of sfumato. In this painting set atop a crag, the archangel Gabriel helps the infant John the Baptist point to infant Christ.

ANSWER: **Virgin of the Rocks** [or **Madonna of the Rocks**]

[10] There is debate over whether this Venetian artist used true *sfumato* in his portrait of a young boy holding an arrow. This artist is better-known for his *Castelfranco Madonna* and the storm scene *The Tempest*.

ANSWER: **Giorgione** [or Giorgio **Barbarelli** da Castelfranco]

5. Name some French authors who wrote about education, for 10 points each:

[10] This Renaissance author lampooned contemporary educational methods in his hilariously-satirical, massive five-part novel *Gargantua and Pantagruel*.

ANSWER: Francois **Rabelais**

[10] This later Frenchman wrote a "Profession of Faith of the Savoyard Vicar" in a treatise about education. His *Confessions* laid the framework for the modern autobiography.

ANSWER: Jean-Jacques **Rousseau**

[10] After only fourteen years of imprisonment, a little education transforms Edmond Dantes from a naive sailor into a genius revenge-driven madman in this author's novel *The Count of Monte Cristo*.

ANSWER: Alexandre Dumas

6. Answer the following about the budgetary process in the United States, for 10 points each:

[10] All budgetary amendments and appropriations bills must originate in this chamber of the US Congress. This 435-member legislative body uniquely has a Committee on Rules.

ANSWER: United States House of Representatives [or the US House]

[10] If a budget cannot be agreed upon by the president and Congress, this type of bill must be passed to prevent a shutdown. This bill keeps the budget from the previous fiscal year until a budget is signed into law.

ANSWER: continuing resolution [or CR; prompt on partial answer]

[10] The practice of adding these provisions, usually controversial amendments that would not pass on their own, can lead to stalls in the budgetary process. A bill with many of these attachments is called a "Christmas tree bill."

ANSWER: riders

7. A squiggly line with a gamma next to it represents this particle on a Feynman diagram. For 10 points each:

[10] Name this boson which carries the electromagnetic force.

ANSWER: photon

[10] The energy of a photon equals Planck's constant times this quantity, which is measured in Hertz.

ANSWER: frequency [or f]

[10] Interaction of photons with matter can result in this effect, in which a photon transfers energy to an electron, without losing any energy. Pair production occurs with photons at higher energy than the ones in this effect.

ANSWER: Compton scattering [prompt on scattering]

8. Answer the following about sculptures of dancers, for 10 points each:

[10] By far, the best-known statue from the Mohenjo-Daro civilization, one depicting a dancing girl, was discovered near this river by Sir John Marshall. Harappa, in modern-day Pakistan, was a settlement around this river.

ANSWER: Indus River

[10] This sculptor created essentially a bust of an egg, which he called a depiction of dancer Mademoiselle Pogany, for the Armory Show. A series by this sculptor of seven marble, nine bronze oval planes got taxed for not being art.

ANSWER: Constantin Brancusi

[10] This sculptor's wax depiction of an ugly *Little Dancer of Fourteen Years* who wears a cotton wig and real clothing was largely shunned. This artist kept the sculpture inside an apartment that he shared with Mary Cassatt.

ANSWER: Edgar Degas

9. Characters that perform this action finally "complete" and die, and a rumor that some can "defer" this action for up to three years due to true love is denounced by Miss Emily. For 10 points each:

[10] Name this action which is performed by Tommy, Ruth, and most of the other students of Hailsham. Kathy H. is a "carer" for people who perform this action.

ANSWER: "donation" [or word forms; or organ donation; or other obvious equivalents; accept any specific organs]

[10] Clones donate organs in *Never Let Me Go*, which was written by this British-Japanese author of *The Remains of the Day*.

ANSWER: Kazuo Ishiguro

[10] *Never Let Me Go* is usually classified in this genre of science fiction. Novels in this genre take on a negative vision of the future, rather than a positive utopia.

ANSWER: dystopian literature

10. Texts with this title have been written by Tacitus and Polybius. For 10 points each:

[10] Name this common title, which most famously refers to a book written by Herodotus of Helicarnassus.

ANSWER: Histories [or *The History*]

[10] Herodotus' *Histories* is largely an account of the war fought between Greece and this Middle Eastern power, led at the time by the Achaemenid Dynasty under Darius and Xerxes.

ANSWER: Persian Empire [prompt on Iran]

[10] Herodotus' *Histories* is also possibly the first Greek book on this subject, the actual practice of how history is presented and studied.

ANSWER: **historiography** [or word forms]

11. Name these composers who shared the grave pursuit of writing funeral music, for 10 points each:

[10] This Polish composer of many polonaises and the "Minute Waltz" included a funeral march in his second piano sonata.

ANSWER: Frederic **Chopin**

[10] A march for brass and drums is the most-excerpted piece from this composer's *Music for the Funeral of Queen Mary*. "When I am Laid in Earth" is from his opera *Dido and Aeneas*.

ANSWER: Henry **Purcell**

[10] This composer of the operas *Faust* and *Romeo and Juliet* wrote the short, comic "Funeral March for a Marionette" which was used as the theme music for *Alfred Hitchcock Presents*.

ANSWER: Charles **Gounod**

12. The so-called housebuilder theorem applies to these shapes. For 10 points each:

[10] Name the *least specific* type of quadrilateral in which the diagonals both bisect each other and are congruent.

ANSWER: **rectangles** [do not accept or prompt on "square", "parallelogram", or "rhombus"]

[10] If the diagonals of a parallelogram also have this property, on the other hand, then the parallelogram must be a rhombus. This property is possessed by adjacent sides of a rectangle.

ANSWER: **perpendicular** [or word forms; or they form **right angles**; or they form **90 degree angles**; or obvious equivalents; prompt on **orthogonality**]

[10] The area of a parallelogram, or the volume of a parallelepiped, can easily be found using this operation. This operation is done to a set of solutions to a differential equation to determine if they are linearly independent.

ANSWER: **determinant** [or **Wronskian**]

13. This man was the godfather of psychologist William James. For 10 points each:

[10] Name this author of essays like "Self-Reliance" and "The Over-Soul" and the speech "The American Scholar."

ANSWER: Ralph Waldo **Emerson**

[10] Emerson wrote about the transparent eyeball in a transcendentalist book-length essay praising this concept. Classically, literary conflicts are defined as man vs. man, man vs. self, and man vs. this entity.

ANSWER: **nature** [or "**Nature**"]

[10] "Self-Reliance" is the source of one of Emerson's quote that one of these things is the "hobgoblin of little minds." Emerson claims that possessing this faculty is worse than being misunderstood, like Pythagoras.

ANSWER: a "foolish **consistency**" [or word forms, such as being **consistent**]

14. Answer the following about the culinary career of Uruguayan footballer Luis Suarez, for 10 points each:

[10] After blatantly committing a handball in the 2010 World Cup, Suarez topped himself in 2014 by biting Giorgio Chiellini during Uruguay's match with this 2006 World Cup-winning nation.

ANSWER: **Italy** [or **Italia**; or the **Italian Republic**; or the **Azzurri**]

[10] Suarez had earned a ten-match ban while a member of Liverpool in 2013, when he bit defender Branislav Ivanovic, of this club. Kurt Zouma and Thibaut Courtois are young starlets for this English club.

ANSWER: **Chelsea** FC

[10] Suarez's first biting offense occurred in 2010 while playing for Ajax [EYE-ax] in this country's domestic league, the Eredivisie [air-uh-div-EES-ee-ay].

ANSWER: the **Netherlands** [or **Holland**; or **Nederland**]

15. The 1810s were a very dangerous decade to live in England. For 10 points each:

[10] The Luddites did most of their frame-breaking during the 1810s, protesting against this socio-economic event which began in Britain due to its plentiful coal. Its first phase included the invention of the steam engine.

ANSWER: First **Industrial Revolution**

[10] The Peterloo Massacre in 1819 was largely driven by protesters against this series of agricultural tariffs passed by Parliament and Lord Liverpool beginning in 1815. They were finally repealed in the 1840s.

ANSWER: **Corn** Laws

[10] In 1812, John Bellingham shot this politician dead inside the House of Commons, making him the first and only British prime minister to be assassinated.

ANSWER: Spencer **Perceval**

16. The Durbin Amendment on this law later went to the Supreme Court. For 10 points each:

[10] Name this law passed in 2009 which greatly increased federal oversight in the financial services industry by implementing the Volcker Rule.

ANSWER: **Dodd-Frank** Wall Street Reform and Consumer Protection Act [or **Frank-Dodd**; or **H.R. 4173**]

[10] The goal of the Dodd-Frank bill was to put an end to this four-word concept, which is used to describe financial businesses like private banks that the government must prop up to prevent the economy from collapsing.

ANSWER: **“too big to fail”**

[10] The idea that this industry was “too big to fail” led to a federal bailout beginning in 2008. This industry was impacted by the “cash for clunkers” rebate system, which helped sales for the Big Three companies.

ANSWER: **automobile** industry [or the **car** industry; or obvious equivalents]

17. This word is actually a portmanteau of the name of a prayer derived from Psalms 113-118, and the Hebrew tetragrammaton for God. For 10 points each:

[10] Name this word which literally translates as “Praise the Lord” which is found at the start and end of many psalms.

ANSWER: **Hallelujah** [or **Alleluia**; or close phonetic equivalents]

[10] During Lent in this church, the Alleluia are sung during matins, a pre-dawn service. This church split from the Catholic Church in the Great Schism and is led by the Ecumenical Patriarch of Constantinople.

ANSWER: Eastern **Orthodox** Church [or Russian **Orthodox** Church]

[10] The Alleluia is also chanted at matins on these days in the Eastern Orthodox church. These twelve days are the holiest days in the Orthodox Church and celebrate various events in Jesus and Mary’s lives.

ANSWER: Great **Feasts** [or **Feast** days]

18. This organization lobbied for, and eventually won, rural mail delivery. For 10 points each:

[10] Name this post-Civil War fraternal organization set up as a farmers’ lobby by Oliver Kelley.

ANSWER: **Grange** movement [or the **Grangers**; or the **National Grange** of the Order of the Patrons of Husbandry]

[10] In this first of the major Granger cases that was decided by the Supreme Court, the Court ruled that states can regulate private property in the public interest. It was overturned by the *Wabash* case.

ANSWER: **Munn** v. *Illinois*

[10] The Grange movement was eventually overshadowed by this more organized political party, which won 10% of the vote in 1894 midterm elections and advocated for poor farmers. They were later eclipsed by the Progressives.

ANSWER: **Populist** Party [or **Farmers’ Alliance**]

19. Samples prepared for these devices must be cryofixed, and therefore, dead. For 10 points each:

[10] Name these microscopes which come in “scanning” and “tunnel” forms, and which achieve much better magnification than light microscopes because they rely on particles with much smaller wavelengths.

ANSWER: **electron** microscopes [or scanning **electron** microscopes; or tunneling **electron** microscopes]

[10] Since it works on live cells, fluorescence microscopy was used to discover the function of this organelle, which receives proteins from the endoplasmic reticulum and directs them to their final destinations.

ANSWER: **Golgi** apparatus [or **Golgi** body; or **Golgi** complex]

[10] Fluorescence microscopy can be used to identify these chromosomal abnormalities, in which two non-homologous segments of different chromosomes recombine. Robertson names a type of this defect.

ANSWER: **translocation** [or **Robertsonian translocation**]

20. With a few friends, this author founded the Bow Street Runners. For 10 points each:

[10] Name this 18th century English author of *Tom Jones*. He wrote *Shamela* to parody Samuel Richardson’s *Pamela*.

ANSWER: Henry **Fielding**

[10] Many Fielding novels, but especially *Tom Jones* and *Joseph Andrews*, are often described as fitting this genre, in which a comical hero of low social status goes on adventures and pokes fun at society.

ANSWER: picaresques

[10] Another picaresque, *The Luck of Barry Lyndon*, was written by this 19th century satirist, who is best-known today for writing *Vanity Fair*.

ANSWER: William Makepeace Thackeray