

ILLIAC -- ILLinois Academic Competition -- Round 12

1. **The timpani plays beats under a C-minor violin theme in 6/8 time in the *un poco sostenuto* first movement of a symphony by this composer. The final movement of that symphony features a horn solo containing an alphorn-inspired theme. This composer composed two clarinet sonatas and a Clarinet Quintet in B minor for Richard (*) Muhlfeld. The Bach cantata *Nach dir, Herr, verlangst mich* was the basis for a passacaglia that ends this composer's fourth and final symphony. This composer responded "any ass can see that" to an assertion that his first symphony quoted "Ode to Joy." Hans von Bülow dubbed this composer's first symphony "Beethoven's tenth." For 10 points, name this German composer of four symphonies and a famous lullaby.**

ANSWER: Johannes **Brahms**

< Dylan Bowman | *Music* >

2. **In one country, student protests against this document spawned a cultural movement whose mouthpiece was the periodical *New Youth*. Some signers of this document were condemned as "November Criminals" by right-wing politicians as part of rhetoric now called the "stab-in-the-back myth." The Chinese May Fourth Movement was formed in reaction to (*) this treaty's solution to the Shandong Problem. As a result of this treaty, troops were to occupy bridgeheads east of the Rhine for fifteen years and Alsace and Lorraine were returned to France. This treaty's "Big Four" negotiators included David Lloyd George and Woodrow Wilson. For 10 points, name this treaty that ended World War I.**

ANSWER: Treaty of **Versailles** (*ver-SAI*) [or *Traité de Versailles*; accept Treaty of **Peace between the Allied and Associated Powers and Germany**]

< Mike Hu | *Continental Europe* >

3. **This quantity is approximately one plus two pi times the number density times the mean polarizability of a gas according to the Lorentz-Lorenz equation. This quantity can become less than one in a phenomenon called anomalous dispersion. A change in this quantity is directly proportional to the square of the applied electric field in the (*) Kerr effect. This quantity is equal to the square root of a material's permeability times its permittivity. This quantity depends on wavelength in dispersive materials. In birefringent materials, it depends on the polarization of light. For 10 points, name this dimensionless quantity which multiplies two sine functions in Snell's Law and is symbolized n .**

ANSWER: **index of refraction**

< Iain Carpenter | *Physics* >

4. **A man meets one of these figures with seventy heads that is watched over by another who never smiles. These figures make up the forceful Nazi'ats and the gentle Nashitats. Two of these figures carry hammers too large for mankind to lift and question the dead in their graves. Munkar and Nakir are these kind of beings, as are Raqib and Atid who record (*) the deeds of humanity. A prophet encounters many of these beings on the Night Journey and is told to "Recite!" by one of these figures during the Night of Power. For 10 points, name these Islamic beings of light encountered by Muhammad, examples of which include Israfil and Jibreel.**

ANSWER: **angels** [or **malak** or **mala'ikah**; accept arch**angels**]

< Ethan Ashbrook | *Mythology, Stories, and Legends* >

5. **This character's husband thinks that "happiness is" holding this character's hand after giving her roses. Along with people like Mrs. Bletchley and Mrs. Coates, this woman watches a plane spell out "toffee" in the sky while standing in front of Buckingham Palace. This woman's daughter, Elizabeth, goes shopping with (*) this woman's bitter rival, Mrs. Kilman. This woman admires the courage of a World War I veteran who jumps from a window to his death and remembers sharing a kiss with Sally Seton in her childhood. This character is frenemies with Peter Walsh and begins the day by going to buy flowers for her party. For 10 points, name this title character of a novel by Virginia Woolf.**
ANSWER: Mrs. Clarissa Dalloway [accept either underlined name]

< Ethan Ashbrook | *Long-Form Fiction* >

6. **The name of one town in this country literally translates to "Thirty-Three" and is named after a militant group that fought this country's northern neighbor. This country's highest point is a rocky escarpment called Cerro Catedral. The brackish Mirim Lagoon straddles the border between this country and its northern neighbor. This nation was the site of the (*) inaugural FIFA World Cup and contains beach resorts such as Punta del Este and Punta Diablo. This country's namesake river separates it from the Argentine province of La Mesopotamia. This country's capital city is located on the north shore of the Rio de la Plata. For 10 points, name this South American country with capital at Montevideo.**
ANSWER: (Oriental Republic of) Uruguay [accept República Oriental del Uruguay]

< Jonathan Lau | *Misc - Geography* >

7. **One personality disorder related to this condition is often considered to be part of this condition's "extended phenotype." This disorder's prodromal phase involves increased charisma and sexual activity leading to theories surrounding this disorder's 1% prevalence rate. Drugs used to treat this disorder include (*) clozapine which can reduce suicidality among patients with this disorder. Some patients with this disorder suffer from waxy flexibility, a sub-symptom of catatonia. Other common symptoms of this disorder include flat affect and delusions of grandeur. For 10 points, identify this disorder characterized by hallucinations and named for the Greek word for "split mind."**
ANSWER: schizophrenia [accept schizoaffective disorder **after** "clozapine"]

< Brad McLain | *Social Science* >

8. **During an early attempt to capture a major city in this conflict, Rudolf Cederström destroyed several ships while suffering no casualties. With the assistance of the *Argus*, Presley O'Bannon captured a battery of a port city in this conflict. During a failed attempt to destroy the opposing fleet in this conflict, the entire crew of the *Intrepid* was killed, including its captain Richard Somers. William (*) Eaton, the commander at the Battle of Derna, was furious after Tobias Lear signed the peace treaty ending this war. An incident in this war saw William Bainbridge's ship, the *USS Philadelphia*, burned by Stephen Decatur. For 10 points, name this war that began after Thomas Jefferson refused to pay tributes to the Pasha of Tripoli.**

ANSWER: First Barbary War [accept First Barbary Coast War; accept Tripolitanian War **before mentioned**; prompt on Barbary Wars]

< Mitch McCullar | *US History* >

9. One space probe designed to explore this object landed near its Adiri region. In 2015, scientists created a biological membrane called an azo-to-some, which is suited to the environment of this object. Scientists predict that this body's surface can rise and fall up to ten meters each orbit due to a hypothetical underground ocean. UV photolysis on this body is thought to form free radicals that combine into (*) hydrocarbons, which can be found in liquid form in features such as Ligeia Mare and Kraken Mare. This body contains the Xanadu (*zan-AH-doo*) Region and the Shangri-La Region, where the Huygens probe landed in 2006. This body is notably covered by a thick methane-containing atmosphere. For 10 points, name this largest moon of Saturn.

ANSWER: **Titan**

< Jonathan Lau | *Other Science* >

10. One character created by this author reveals that he owns 4,000 tablecloths and states that he holds highest rank in Switzerland: "a free citizen." In a play by this author, the protagonist is captured in the Sierra Nevadas along with his chauffeur. In another play by this author, Ezra Wannafeller is convinced that he found the (*) "most original moralist" in England. A dream sequence in one play by this author occurs after Jack Tanner is captured by Mendoza; that sequence is titled "Don Juan in Hell." This author wrote a play centering around Colonel Pickering's bet with Henry Higgins that he can't make Eliza Doolittle a lady. For 10 points, name this author of *Man and Superman*, *Arms and the Man*, and *Pygmalion*.

ANSWER: George Bernard **Shaw**

< Mitch McCullar | *Drama* >

11. This ruler was regarded as "Machiavellian" in Thomas Blackwell's history -- *Memoirs of the Court of [this man]*. This ruler's conquering of forty-five Alpine tribes is honored by the *Tropaeum Alpium* outside Monaco. The Senate agreed to grant this ruler the powers of a tribune in the Second Settlement. Ovid attributed some "*carmen et error*" to this ruler (*) exiling him, and this ruler may have been given poisoned figs by his wife Livia so their son Tiberius could be emperor. Along with Marcus Lepidus and Mark Antony, this emperor made up the Second Triumvirate. For 10 points, name this first Roman emperor and adopted son of Julius Caesar.

ANSWER: Caesar **Augustus** [or **Octavian** or Gaius **Octavius** or Gaius Julius Caesar **Octavianus** or Emperor Caesar Divi Filius **Augustus**; prompt on **Caesar**; do NOT accept or prompt on "Julius Caesar"]

< Tim Cho | *Classics, Britain or Commonwealth, Other History* >

12. This thinker asked "What is the mode of being of that being in which the world constitutes itself?" in an extension to his teacher's problem of receiving consciousness. This man discussed an idea that he considered a way of enframing, as shown by a hydroelectric power plant. This author of *The Question Concerning Technology* used a (*) hammer to distinguish between objects that are "present-to-hand" and "ready-at-hand." This man's philosophical turn is known as "Die Kehre" (*dee KAY-ruh*), which took place after he broke with his teacher Edmund Husserl and joined the Nazi party. For 10 points, name this German philosopher who wrote *Being and Time*.

ANSWER: Martin **Heidegger**

< Ethan Ashbrook | *Philosophy* >

13. This poet asked “Doth Pluto tell thee thou Shalt see the shade?” in a poem telling the addressee to “behold the wide extended skies.” This poet’s piety was praised in a poem quoting 21 Bible verses beginning “O come you pious youth” by Jupiter Hammon. A poem by this author mourns the “setting sun” that “shines no more” after the death of the title (*) “happy saint.” This poet of “An Address to the Atheist” wrote an elegy for George Whitfield and tells a “great chief” to let the “Goddess guide” him in hopes that “Columbia’s arm prevail.” This poet opened another poem stating that “’Twas mercy brought me from my Pagan land.” For 10 points, name this author of “To His Excellency, General Washington,” an early African-American poet.

ANSWER: Phyllis **Wheatley**

< Mitch McCullar | *Non-Epic Poetry* >

14. On the album *Gunslinging Birds*, this artist reworked a song with “ohs” that begin the lyric “Oh lord don’t let them shoot us.” A baritone melody begins that song by this artist which is sandwiched between the tracks “Pussy Cat Dues” and “Bird Calls” on another album. This artist included subtitle descriptions to Track A: Solo Dancer, Track B, and Track C from a four-track album done as a single recording -- *The Black Saint (*) and the Sinner Lady*. This artist reworked the Gershwin song “A Foggy Day” on his album *Pith-e-can-thropus Erectus*. This musician of “Fables of Faubus” honored Lester Young’s death with the slow elegy, “Goodbye Pork Pie Hat.” For 10 points, name this jazz artist, a bassist who composed an album titled [this artist]-*Ah-Um*.

ANSWER: Charles **Mingus** Jr.

< Michael Etzkorn | *Other Fine Arts* >

15. This man’s forces killed 30,000 people by setting the Changsha fire following the fall of Wuhan. According to a popular saying, this man’s wife “loved power,” while her sisters “loved money” and their country. The Christian wife guided this man to create the New Life Movement which was supported by the Blue Shirts Society. The “Young Marshall,” (*) Zhang Xueliang (*shway lee-ang*), kidnapped this leader during the Xi’an (*shee-ahn*) Incident. This husband of Soong May-ling succeeded Sun Yat-Sen as the leader of the Republic of China. For 10 points, name this Nationalist leader who fled to Taiwan after being defeated by Mao Zedong in the Chinese Civil War.

ANSWER: (Generalissimo) **Chiang** Kai-Shek [accept **Chaing** Chungcheng; accept **Chaing** Chieh-shih; accept **Jiang** Jieshi; do NOT accept or prompt on non-underlined portions]

< Jonathan Lau | *Non-Euro, Non-Commonwealth* >

16. For studying the lateral inhibitory effect of this structure in horseshoe crabs, Keffer Hartline won the 1967 Nobel Prize in Physiology or Medicine. White blood cells passing through the capillaries of this structure can cause Scheerer’s blue field phenomenon. Tay-Sachs disease can be characterized by a cherry red (*) spot in this structure. This structure’s inner plexi-form contains synapses between ama-crine and bi-polar cells which relay information to this structure’s ganglion cells. This structure’s sensitive regions are the macula and fovea. For 10 points, name this layer of tissue made up of rod and cone photoreceptor cells that connects the eye to the optic nerve.

ANSWER: **retina** [prompt on eye; prompt on ommatidium or ommatidia]

< Michael Etzkorn | *Biology* >

17. In some practices, these events are concluded by the mixing of four rice balls representing different generations in a rite known as *Sa-pin-di-ka-ra-na*. People involved in these events live as *pretas* for 12 days. One portion of these events, *smasana*, is typically omitted for children, as they are considered to be without sin. These events traditionally take place (*) near rivers in *Shmashanas*, and make up the final *samskara*, known as *Antyesti*. These events see the release of Atman and traditionally involve cremation -- although some sects perform burials instead. For 10 points, name these Hindu rites for the dead.

ANSWER: Hindu funerals [accept Antyesti before mention; prompt on cremation before mention]

< Jaden Lucas | *Religion* >

18. In one of this artist's works inspired by *Steve Roper*, a man swings open a peephole to scan a dark room only to discover nobody is in it. Erle Loran attempted to sue this artist over exhibiting life-size renditions of his black-and-white outline analyzing *The Portrait of Madame Cezanne*. A girl with blue hair closes her eyes as tears drip down her face in a work by this artist that shows the girl thinking "I don't care! I'd rather (*) sink than call Brad for help!" This artist of *Drowning Girl* used Ben-Day dots for his depiction of an anthropomorphic duck fishing and catching his own coat while a mouse laughs at his gaff. For 10 points, name this American pop artist whose comic-book style is seen in his works *Look Mickey* and *Whaam!*.

ANSWER: Roy (Fox) Lichtenstein

< Michael Etzkorn | *Painting and Sculpture* >

19. One character in this novel is thrown an extravagant birthday party which ends with her catching her husband cheating on her with a maid. After resigning his position as Shaw Professor at Oxford, David Hawkes finished his English translation of this novel. The protagonist of this novel falls in love with his cousin (*) Lin Daiyu despite his strict father's arrangement for him to marry Xue (*shway*) Baochai. Hawkes translated this novel as *Story of the Stone* since the protagonist Jin Baiyu was born with a jade in his mouth. For 10 points, name this novel of over 2500 pages, an 18th-century Chinese classic written by Cao Xueqin (*tsow shway-cheen*).

ANSWER: *Dream of the Red Chamber* [accept *The Story of the Stone* before mentioned; accept *A Dream of Red Mansions*; accept *Red Chamber Dream*; accept *Hong Lou Meng*]

< Michael Etzkorn | *Long-form Literature* >

20. In one type of this technique that makes use of convection currents, a pulsating magnetic field is applied to one end of a Zippe-type chamber that contains gaseous hex. Di-eth-yl-zinc can yield depleted zinc oxide in the gas variety of this technique. Sucrose or cesium chloride can create a density gradient in this technique. The analytical (*) "ultra" form of this technique was developed by Theodor Svedberg. This technique can be used to enrich uranium due to the difference in mass between the two isotopes. A pellet and supernatant are formed in, for 10 points, what laboratory technique that separates components by rapidly rotating a solution?

ANSWER: centrifugation [accept gas centrifugation; accept Zippe-type centrifuge; prompt on uranium enrichment with "What technique is used to enrich the uranium?"]

< Michael Etzkorn | *Chemistry* >

BONUSES:

1. The “Lion Capital” of this ruler was erected at Sarnath. For 10 points each:

[10] Name this emperor who fought a bloody war against the Kalinga (*kuh-LING-uh*) empire.

ANSWER: **Ashoka** the Great [accept **Asoka** the Great; accept **Ashoka** Maurya]

[10] Ashoka converted to this pacifist religion after the bloody Kalinga Campaign.

ANSWER: **Buddhism**

[10] This son of Ashoka helped spread Buddhism through Sri Lanka with his sister Sanghamitra.

ANSWER: **Mahinda** [or **Mahendra**]

< Sarod Nori | *Non-Euro, Non-Commonwealth* >

2. This composer featured the Shaker tune “Simple Gifts” in his *Appalachian Spring*, for 10 points each:

[10] Name this American composer of the ballet *Rodeo* and *Fanfare for the Common Man*.

ANSWER: Aaron **Copland**

[10] This French composer taught Aaron Copland harmony at Fontainebleau. She taught many other leading musicians of the 20th century, including Elliott Carter and Dinu Lipatti.

ANSWER: (Juliette) Nadia **Boulanger**

[10] When approached for tutoring, Nadia Boulanger rejected this Greek composer of the stochastic pieces *Metastaseis* and *Pithoprakta*.

ANSWER: Iannis **Xenakis** [accept Iannis **Ksenakis**]

< Iain Carpenter | *Music* >

3. These animals get into an argument over whether or not the Jew Pyrot stole 80 thousand trusses of hay in a parody of the Dreyfus Affair. For 10 points each:

[10] Identify these animals that are accidentally baptized by the bishop Mael, leading God to decide to turn them into humans.

ANSWER: **penguins**

[10] This author of *Penguin Island* wrote about Évariste Gamelin’s role in the Reign of Terror in *The Gods Are Thirst*.

ANSWER: Anatole **France** [accept Jacques-Anatole-Francois **Thibault**]

[10] Anatole France was the basis for Bergotte (*bear-goat*) in this French author’s long seven-volume novel *In Search of Lost Time*.

ANSWER: Marcel **Proust**

< Ethan Ashbrook | *Misc Literature* >

4. Neutral atoms can be hard to study in depth. For 10 points each:

[10] One way to cool down and confine neutral atoms for study is the use of a trap named for magnets and this adjective. This adjective also names a pair of “tweezers” used to hold small particles in place.

ANSWER: **optical** [accept magneto-**optical** trap; accept **optical** tweezers; prompt on **MOT**]

[10] Because of this effect, atoms in a magneto-optical trap only experience cooling forces when they move toward the laser source. This effect changes the frequency of light that a moving observer experiences, ensuring that the atoms get slowed down by the lasers.

ANSWER: **Doppler** effect

[10] This state of matter was first observed in a MOT of rubidium atoms. It occurs near absolute zero in materials with integer spins, when many atoms are all in the lowest quantum state.

ANSWER: **Bose-Einstein condensate** [or **BEC**]

< Nathan Fredman | *Physics* >

5. Name some things about Catholic orders. For 10 points each:

[10] This group of “Black Monks” operate as independent communities despite being called an order.

Although this order is commonly said to observe a vow of silence, members are allowed to talk for most of the day according to the founding saints’ namesake rule.

ANSWER: Order of Saint **Benedict** [accept **Benedictines**; prompt on **OSB**]

[10] This order of “Black Friars” were historically responsible for carrying out inquisitions. Today, they are active in the Philippines and Vietnam, performing baptisms instead of torturing heretics.

ANSWER: **Dominican** Order [accept **Order of Preachers**; prompt on **OP**]

[10] This scholarly order was founded by the author of the *Spiritual Exercises*, Ignatius of Loyola. This order operates several universities including Boston College and Loyola University Chicago.

ANSWER: **Society of Jesus** [accept **Jesuit** Order; prompt on **SJ**]

< Brad McLain | *Religion* >

6. Alvin Ailey was a pioneering choreographer and dancer who paved the way for African-American participation in concert dance. For 10 points each:

[10] Ailey’s best-known work is arguably this one, a suite of dances that explores the history, culture, and faith of African-Americans.

ANSWER: **Revelations** [do NOT accept or prompt on “Revelation”]

[10] The music of *Revelations* includes “Wade in the Water” and “Sinner Man,” which are this kind of song. These songs often contain Biblical references and describe the effects of slavery.

ANSWER: **spirituals** [prompt on **hymns**, **folk** songs, **blues** songs, or **gospel** songs]

[10] One of the most famous spirituals is partially named after this kind of vehicle that “swing[s] low” and is “coming for to carry me home.”

ANSWER: **chariot**

< Bryan Lu | *Other Fine Arts* >

7. The writing system of the Cherokee language is a syllabary; thus, each symbol corresponds to a plain vowel sound or a consonant-vowel pair. For 10 points each:

[10] The Cherokee syllabary was created by this man in the early 19th century. He took inspiration from both the Latin and Cyrillic scripts while creating the Cherokee characters.

ANSWER: **Sequoyah** [accept George **Gist**; accept George **Guess**]

[10] Two syllabic scripts are used in the writing of this Asian language. One named katakana can be used to transcribe foreign language words, while the other, hiragana, can denote grammatical content.

ANSWER: **Japanese** [accept **Nihongo**]

[10] Another largely syllabic system was cuneiform adopted by the Akkadians and Assyrians. The languages of those groups are part of this language family that also includes Tigrinya and Amharic.

ANSWER: **Semitic** [prompt on **Afro-asiatic**; prompt on **Afrasian**; prompt on **Hamito-Semitic**; prompt on **Semito-Hamitic**]

< Bryan Lu | *Social Science* >

8. Participants of this event cut a fence by mistake when they intended to cut some telegraph wires in order to hide their whereabouts. For 10 points each:

[10] Name this event that prompted Kaiser Wilhelm II to send the Kruger Telegram.

ANSWER: **Jameson Raid**

[10] This war, partially caused by the Jameson Raid, was fought between the British and a group of Dutch settlers over the Orange Free State and the Transvaal.

ANSWER: (Second Anglo-) **Boer** War [accept **South African** War]

[10] The Second Boer War involved the siege of this diamond mining town, which is currently the capital of the Northern Cape Province of South Africa. One of its mines, the Big Hole, is claimed to be the deepest hole excavated by hand.

ANSWER: **Kimberley**

< Mike Hu | *Classics, British or Commonwealth, Other* >

9. It's not borate, but this acid is used in a buffer solution with Tris base and E·D·T·A to separate nucleic acids in electrophoresis. For 10 points each:

[10] Name this acid whose trifluoro derivative is used to cleave protecting groups in solid peptide synthesis.

ANSWER: **acetic acid** [accept **acetate**; accept **ethanoic acid**; prompt on **CH₃COOH**; or any ordering of **C₂O₂H₄**]

[10] This process uses a rhodium catalyst to produce acetic acid via carbonylation of methanol. This process has been largely replaced by the Cativa process.

ANSWER: **Monsanto** process

[10] Acetic acid is the active ingredient in this solution often used as a household cleaner. Its “apple cider” variety is claimed to have medicinal properties.

ANSWER: **vinegar**

< Dylan Bowman | *Chemistry* >

10. A poem about this man mentions the “huge laughing cockroaches on his top lip.” For 10 points each:
[10] Name this Soviet leader. Osip Mandelstam’s “Epigram” of this Georgian-born leader led to Mandelstam’s exile.

ANSWER: Joseph **Stalin** [or Iosif Vissarionovich **Dzhugashvili**]

[10] This other Russian poet mourned the imprisonment of her son during Stalin’s regime in several sections of her elegy *Requiem*.

ANSWER: Anna **Akhmatova** [or Anna Andreyevna **Gorenko**]

[10] The speaker of this Akhmatova poem opens by stating that “I have lit my treasured candles, one by one, to hallow this night.”

ANSWER: “**Poem without a Hero**” [or “**Poema bez geroya**”]

< Mitch McCullar | *Non-Epic Poetry* >

11. This dish is made using a base of stewed tomatoes. For 10 points each:

[10] Name this stewed vegetable dish often flavored with *herbes de Provence* (*airb duh proh-vawns*) which consists of sliced zucchini, squash, eggplant, bell pepper, and onion. This dish originated in Nice (*nees*), France.

ANSWER: **ratatouille** (*rat-uh-too-ee*)

[10] This form of bread was adapted into *bánh mì* (*bahn mee*) in Vietnamese cuisine. This long, thin form of bread is a staple of French cuisine.

ANSWER: **baguette**

[10] Another staple of French cuisine is this flavor base made by cooking celery, carrots, and onions in butter on low heat. It is often compared to the “holy trinity” of Cajun cuisine or the Italian soffritto flavor base.

ANSWER: **mirepoix** (“*meer*”-pwah)

< Iain Carpenter | *Other Academic* >

12. This monument was designed for the family palace of Pope Innocent X. For 10 points each:

[10] Name this monument that features a prominent Egyptian obelisk on which a dove with an olive branch perches.

ANSWER: **Fountain of the Four Rivers** [accept **Fontana dei Quattro Fiumi**; accept **Four Rivers Fountain**]

[10] The same artist of the Fountain of the Four Rivers created this sculpture for Cardinal Cornaro. This sculpture depicts an angel drawing back a spear and aiming it at the title woman.

ANSWER: (*The*) **Ecstasy of Saint Teresa** [accept **Saint Teresa in Ecstasy**; accept **Transverberation of Saint Teresa**; accept *L’Estasi di Santa Teresa*; accept **Santa Teresa in estasi**]

[10] This 17th-century Italian architect and sculptor designed the *Fountain of the Four Rivers* and sculpted the *Ecstasy of Saint Teresa*.

ANSWER: Gian Lorenzo **Bernini**

< Michael Etzkorn | *Painting and Sculpture* >

13. The circuit court with this number is by far the largest of the 13 federal appeals circuit courts and has been accused of a liberal bias. For 10 points each:

[10] Name the circuit court with this number which has jurisdiction over the west coast of the United States.

ANSWER: United States Court of Appeals for the **Ninth** Circuit

[10] In *Elk Grove Unified School District v. Newdow*, the Ninth Circuit said that the words “under God” in this statement violated the Establishment clause. The Supreme Court reversed the Ninth circuit's decision, but has also ruled that students do not need to salute the flag during this statement.

ANSWER: **Pledge of Allegiance**

[10] Using this Constitutional clause, the Supreme Court reversed the Ninth Circuit on the legality of homegrown medical marijuana. This clause grants Congress the power to regulate interstate trade.

ANSWER: **Commerce** Clause

< Nathan Fredman | *US History* >

14. (**Note to moderator:** be lenient with phonetic and attempted pronunciations) Name some members of the mythical Celtic tribe -- Tuatha Dé Danann (*too-uh-huh day DAH-nen*). For 10 points each:

[10] This warrior was killed by Balor and the Fomorians at the second Battle of Magh Tuireadh (*moy twitter*). After his arm was replaced with a silver prosthetic by Dian Cécht (*dee-uhn kate*), this man was declared unfit to be king.

ANSWER: **Nuada** Airgetlám (*ar-get-lahv*) [or **Nuadu**]

[10] This god avenged Nuada's death by killing Balor using a sling. He became the Celtic god of light after succeeding Nuada as leader of the Tuatha.

ANSWER: **Lugh** Lámfada (*loo LAW-vah-duh*)

[10] Lugh was the father of this other warrior, who single-handedly fought off an army at the Cattle Raid of Cooley with his spear the Gáe Bulg (*gah-eh buh-lug*).

ANSWER: **Cú Chulainn** (*koo HUH-lin*) [accept **Setanta**]

< Ethan Ashbrook | *Mythology, Stories, and Legends* >

15. One figure with this profession gives his boss a dog that he stole from Kraus von Zillergut. For 10 points each:

[10] Name this profession, members of which are the subject of Erich Maria Remarque's novel *All Quiet on the Western Front*.

ANSWER: **soldier** [accept logical equivalents like **serviceman** or **trooper**]

[10] While not exactly a soldier, Edward Ashburnham is the subject of the novel *The Good Soldier* by this American author.

ANSWER: Ford Madox **Ford** [or Ford Hermann **Hueffer**]

[10] Ford's *The Good Soldier* is not to be confused with this other good soldier created by Jaroslav Hašek (*huh-SHEK*). This man gets arrested by his fellow Czech troops after putting on a Russian uniform.

ANSWER: Josef **Svejk** (*shuh-vay-ek*) [also written Josef **Schweik**; prompt on **Josef** (*yo-siff*)]

< Ethan Ashbrook | *Long-Form Fiction* >

16. These equations were originally created to model populations of fish in the Adriatic Sea during World War I. For 10 points each:

[10] Name this pair of first-order nonlinear differential equations used to model predator-prey interactions. It should not be confused with a similar equation that models competition over a resource.

ANSWER: **Lotka-Volterra** equations [prompt on partial answers; accept **Lotka-Volterra** predator-prey model; do NOT accept “competitive Lotka-Volterra equations (or Model)”]

[10] The *competitive* rendition of the Lotka-Volterra equations contain a term where the population size is divided by this variable. In ecology, this value is the limit as a logistic function approaches infinity.

ANSWER: **carrying capacity** [prompt on **K**]

[10] In 1838, Pierre-François Verhulst used a logistic function to model populations after reading this man’s book *An Essay on the Principle of Population* which predicted that the British population would double every 25 years leading to a lack of food supply.

ANSWER: Thomas (Robert) **Malthus**

< Jonathan Lau | *Biology* >

17. 137 of these weapons were found on the shipwreck of the *Mary Rose*. For 10 points each:

[10] Name these weapons traditionally made of yew wood which were instrumental to English victories at Crécy and Poitiers during the Hundred Years’ War.

ANSWER: English **longbows** [prompt on **bow** and arrows]

[10] Longbows also played a significant role during this English victory during the Hundred Years’ War. This 1415 victory for Henry V was fought on St. Crispin’s Day.

ANSWER: Battle of **Agincourt**

[10] The only French victory during the battle of Agincourt was the Ysembart d’Azincourt’s (*EE-sem-barr DAH-zin-cores*) successful raid of this vehicle carrying some treasures of King Henry V.

ANSWER: Henry V’s **baggage train** [accept **supply train**; prompt on **train**]

< Iain Carpenter | *Continental Europe* >

18. This character arrives at a town inn in County Mayo claiming to have just killed his father. For 10 points each:

[10] Name this character. After winning a mule race, this character gets into a fight with his not-so-dead father and hits him on the head with a spade, believing he has finally killed him.

ANSWER: **Christy** Mahon [or **Christopher** Mahon; prompt on **Mahon**; prompt on *The Playboy of the Western World*; do NOT accept or prompt on “Old Mahon”]

[10] The still-not-dead Old Mahon saves his son Christy from being hanged at the end of this author’s play *The Playboy of the Western World*. Other plays by this author include *In the Shadow of the Glen* and *Riders to the Sea*.

ANSWER: J.M. **Synge** [or Edmund John Millington **Synge**]

[10] J.M. Synge was an author from this country. The premier of Synge’s play *The Playboy of the Western World* sparked riots in this country’s city of Dublin.

ANSWER: **Ireland** [or **Éire**]

< Mitch McCullar | *Drama* >

19. This scientist opposed Darwin's ideas that natural selection alone could form genera and proposed views similar to those of Lamarck. For 10 points each:

[10] Name this scientist who engaged in the Bone Wars with Othniel Charles Marsh as they both searched for Mesozoic remains in Colorado and Wyoming. His namesake "rule" proposes that a clade of organisms increases in body size as it evolves.

ANSWER: Edward Drinker **Cope**

[10] Edward Drinker Cope discovered *Elasmosaurus* which was one of these prehistoric marine reptiles. He mistakenly placed the animal's skull at the end of its tail instead of on its neck.

ANSWER: **Plesiosaurs**

[10] One of the best preserved fossils of this dinosaur is FMNH PR 2081, more affectionately known as Sue, which is housed at the Field Museum of Natural History in Chicago.

ANSWER: **Tyrannosaurus Rex** [prompt on **Lizard King**]

< Jonathan Lau | *Other Science - Earth Science* >

20. This thinker made a thought experiment of a man floating in the air who can affirm his own existence. For 10 points each:

[10] Name this author of *The Book of Healing*. This thinker said that he had read one Aristotle work 40 times before al-Farabi's commentaries allowed him to understand.

ANSWER: **Avicenna** [accept **Ibn Sina** or Abu Ali **Sina**]

[10] The aforementioned Aristotle work was titled for this field. Avicenna argued that since nothing could be the subject of its own study, God could not be the subject of this field. Centuries later, Carnap tried to "eliminate" this field of philosophy.

ANSWER: **metaphysics**

[10] Avicenna's floating man proof of the existence of the soul is similar to this man's "cogito ergo sum" proof of his own existence, which was formulated in his *Meditations on First Philosophy*.

ANSWER: René **Descartes** [accept Renatus **Cartesius**]

< Brad McLain | *Philosophy* >