

ILLIAC -- ILLinois Academic Competition -- Round 5

1. **Pierre-Gustave Roze attempted to invade this dynasty after Bishop Berneux and six other Catholic missionaries were executed. Four “literati” purges targeted the scholarly Sarim faction of this dynasty. Rebellious reformers during this dynasty staged the failed Gapsin Coup in an effort to eliminate social privileges for this dynasty’s (*) yangban class.** This dynasty’s admiral Yi Sun-Shin used turtle ships to repel invasions from Toyotomi Hideyoshi’s fleet. The Hangul alphabet was created by this dynasty’s king Sejong. For 10 points, name this final Korean dynasty that was annexed by Japan in 1910.

ANSWER: **Joseon** [accept **Choson**; accept **Dae Joseonguk**; accept Kingdom of Great **Joseon**]
< Jonathan Lau / Mitch McCullar | *Non-European, Non-Commonwealth History* >

2. **A competitive version of this concept was proposed in a 1998 paper by Gilbert Roberts where participation in this concept helps bolster reputation, and Roberts tied this concept to Amotz Zahavi’s handicap principle and work on the Arabian babbler. In order for this kind of behavior to occur, the cost must be less than the behavior times the genetic relatedness according to (*)** Hamilton’s rule. A donor who performs the “reciprocal” version of this behavior expects some future benefit. This behavior is exemplified by Vervet monkeys drawing attention to themselves to warn fellow monkeys of the presence of a predator. For 10 points, name this behavior of reducing individual fitness to increase the fitness of others in the population.

ANSWER: **altruism** [prompt on kin selection]
< Michael Etzkorn | *Biology* >

3. **While attempting to bathe himself, this god threw down all of his clothes and jewelry onto a riverbank where each garment manifested itself as its own deity. This god drove back an army of undead beings while in the underworld using three peaches. The birth of one of this god’s sons burned this deity’s wife to death. This god, who helped create the (*) islands of Onogoro and Awaji,** went to retrieve his dead wife from Yomi, but was surprised to discover her body covered in maggots. The father of Amaterasu and Susano’o is, for 10 points, what creator god and husband of Izanami?

ANSWER: **Izanagi**-no-Mikoto [prompt on Male-Who-Invites; do **NOT** accept or prompt on “Izanami”]
< Ethan Ashbrook | *Mythology, Stories, and Legends* >

4. **Rulers of this kingdom were buried in larnax coffins at Aigai, which is located near modern-day Vergina. A ruler of this kingdom was assassinated by his bodyguard Pausanias during his daughter’s wedding. A later ruler of this kingdom signed a treaty with Flamininus after losing the Battle of (*) Cynoscephalae, ending the second of this kingdom’s namesake wars with Rome. A different ruler of this kingdom used the Companion Cavalry to win at Chaeronea, destroying the Sacred Band of Thebes. A ruler of this kingdom defeated the Achaemenids at Gaugamela and cut the Gordian knot.** For 10 points, name this kingdom once ruled by Philip II and Alexander the Great.

ANSWER: **Macedonia** [accept **Makedonia**]
< Sarod Nori | *Continental Europe History* >

5. **A piece for chorus and orchestra by this composer sets Dickinson’s “Wild Nights” and “Because I could not stop for Death” to music. A string septet by this composer contains the movement “Hymning Slews” and was inspired by a religious sect. A piece commissioned for the Great Woods Festival in Pittsburgh contains a (*) woodblock ostinato throughout and is a “fanfare for orchestra” like this man’s earlier *Tromba Lontana*. This composer of the minimalist piece *Shaker Loops* used a chorus to sing the names of missing people in a tribute to the victims of 9/11. For 10 points, name this composer of *Harmonium*, *Short Ride in a Fast Machine*, and *On the Transmigration of Souls*.**

ANSWER: John Coolidge **Adams** [do not accept “John Luther Adams”]

< Bryan Lu | *Music* >

6. **The protagonist of this work notices a tiny spot of sun on an inkpot and earlier had taken a bite of the bread she was holding to show her happiness to a man who she was initially nervous meeting. A servant in this story asks a question about sandwich flags -- interrupting a character’s singing of “This Life is Weary.” In this story, one character distracts the protagonist by giving her (*) a hat with a black velvet ribbon. A Godber’s man details the tragic death of Scott in this story, and the protagonist later visits his house with a basket of food. Mrs. Sheridan orders extra canna lilies for the title event of this story, which Laura tries to cancel. For 10 points, name this Katherine Mansfield story about the title outdoor event.**

ANSWER: “The **Garden Party**”

< Mitch McCullar | *Short-Form Fiction* >

7. **This city’s royal family lives in the Royal Palace of Laeken on this city’s outskirts. This city’s southern suburb of Beersel is home to the Beersel Castle, which dates from the 12th century. The Koekelberg neighborhood in this city is home to the art-deco style Basilica of the Sacred Heart. A sculpture resembling a large iron crystal known as Atomium was sculpted for the (*) 1958 World’s Fair in this city, and Jerome Duquesnoy designed a sculpture in this city above a fountain depicting a little boy urinating called *Manneken Pis*. This city is bordered by Flanders to the north and Wallonia to the south. For 10 points, name this city, the center of activity for the European Union and the capital of Belgium.**

ANSWER: **Brussels** [or **Brussels-Capital** Region]

< Jonathan Lau | *Misc - Geography* >

8. **In one novel from this country, the protagonist finds out that the man Diadorim is actually a woman after she dies killing Hermogenes in a knife fight. The protagonist of another novel from this country finds two figures and a dog drawn in charcoal on her wall, and she later kills and eats a cockroach. This country is the setting of *The Passion* (*) *According to G.H.* and *The Devil to Pay for the Backlands* as well as a novel whose title character believes his wife Capitu cheated on him and is nicknamed “Lord Taciturn.” In another novel from this country, the Syrian bar owner Nacib Saad falls in love with the chef Gabriela. The setting of *Dom Casmurro* is, for 10 points, what country, home to the authors Machado de Assis and Jorge Amado?**

ANSWER: Federative Republic of **Brazil**

< Mitch McCullar | *Long-Form Fiction* >

9. **These objects were first discovered when John Bolton requested using them as calibration for the Parkes Telescope. Lunar occultation revealed 3C 273, one of these objects, which was originally thought to be receding at over 47,000 kilometers per second by Maarten Schmidt's calculation of its redshift. These objects have similar spectra to (*) Seyfert galaxies, but emit more radiation. These objects undergo gravitational lensing due to their supermassive black hole which is fed by a large accretion disk. Energy of radio ejecta from these astral objects is used to classify them as "radio-loud" or "radio-quiet." For 10 points, name these highly luminous active galactic nuclei that emit a large amount of energy.**

ANSWER: **quasars** [accept **quasi-stellar radio sources**; prompt on **active galactic nuclei** or **AGN** before mentioned]

< Michael Etzkorn | *Other Science - Astronomy* >

10. **In a 2018 article, Frank Michelman wrote about the ambiguity of this thinker's "unwritten" constitution. In one work, this thinker classified nations that institute state religions as "decent peoples." This author of *The Laws of the People* argued that citizens engaging in "neutral public reason" produce an (*) "overlapping consensus." Inequalities should benefit the least well-off according to this thinker's "difference principle." This philosopher posited the idea of "original position" where decisions are stripped of self-interest by looking at the problem from behind "a veil of ignorance." For 10 points, name this American philosopher of *A Theory of Justice*.**

ANSWER: John (Bordley) **Rawls**

< Ethan Ashbrook | *Philosophy* >

11. **Backed by Alexander Mackenzie's 3rd Division, this man led the 48th Foot during a battle that earned this man the title Viscount of Talavera. As Prime Minister, this man challenged Lord of Winchelsea to a duel to save his honor after passing the Catholic Relief Act. As a commander, this man defeated the armies of Scindia and Berar during the Second Maratha War at the battle of (*) Assaye. This officer helped liberate Madrid two months after winning the Battle of Salamanca during the Peninsular War, and he worked with Prussian officer Gebhard von Blucher to help exile a French general to St. Helena. For 10 points, name this British commander who defeated Napoleon at the Battle of Waterloo.**

ANSWER: Arthur **Wellesley** [accept 1st Duke of **Wellington**, Marquess **Douro**, Marquess of **Wellington**, Earl of **Wellington**, Viscount **Wellington** of Talavera and of **Wellington**, Baron Douro]

< Michael Etzkorn | *Classics, Commonwealth or Britain, Other History* >

12. **The driving force for this process across a flat plate depends on the LMDT. A butterfly-shaped attractor arises from Edward Lorenz's weather-related system specifically designed to model this process in the atmosphere. The difference of the temperatures of the bottom and upper plate times the characteristic length cubed is proportional to the Rayleigh number in (*) Bénard cells undergoing this process. The strength of this process is in the numerator of the Nusselt number. This process occurring in the mantle allows for the movement of plate tectonics, and it can be either "natural" or "forced." For 10 points, name this process of carrying heat through moving fluids.**

ANSWER: **convection** [accept heat **advection**; accept atmosphere **convection**; prompt on **heat transfer**]

< Michael Etzkorn | *Physics* >

13. **Alternating light and dark blue lines give a river a curving effect in a painting by this artist showing men fishing by torchlight. Another painting in that series by this artist depicts a large black whale making a splash. This artist of the *Oceans of Wisdom* series used red and green to contrast the foreground mountain with the blue sky in *Fine Wind, Clear Morning*. This artist **legendarily** (*) won a contest after chasing a chicken across a canvas to paint maple leaves and showed two octopuses performing lewd acts with the title figure in *Dream of the Fisherman's Wife*. For 10 points, name this ukiyo-e (*oo-kee-oh "e"*) artist who included *The Great Wave off Kanagawa* in his series *Thirty-Six Views of Mount Fuji*.**

ANSWER: Katsushika **Hokusai**

< Iain Carpenter | *Painting and Sculpture* >

14. **Kuchuk Hanem's influence on this author is traced in Edward Said's *Orientalism*. In one novel **titled after** this man, Geoffrey Braithwaite searches for a bird that this man kept on his desk while writing. Jean-Paul Sartre spent the last 10 years of his life writing a biography on this man titled *The Family Idiot*. This author's short story about Felicite inspired a (*) Julian Barnes novel titled [this author]'s *Parrot*. The title character of one of this author's novels moves to Yonville where she has affairs with Rodolphe Boulanger and Léon Dupuis. This author of "A Simple Heart" tiled a novel for the wife of the country doctor Charles, who poisons herself with arsenic. For 10 points, name this French author of *Madame Bovary*.**

ANSWER: Gustave **Flaubert**

< Ethan Ashbrook | *Misc Literature* >

15. **In a photograph of this event, Robert Wanko is shown wielding an Uzi in front of a crowd of people. After this event, the nuclear launch codes were confiscated and were not returned for two days. In the aftermath of this event, Alexander Haig controversially claimed "I am in (*) control here." Press Secretary James Brady was wounded during this event which caused a medical examiner to label his death a homicide 33 years later. The perpetrator of this event had previously watched *Taxi Driver* over 14 times due to his obsession with Jodie Foster. John Hinckley Jr. carrier out, for 10 points, what failed 1981 attack on the 40th President of the United States.**

ANSWER: **attempted assassination** of Ronald **Reagan** [do not accept any answers implying the attack was successful]

< Sarod Nori | *US History* >

16. **In one work, this thinker relates a story about Émile Deschamps always meeting Monsieur de Fontgibu when ordering plum pudding. A young woman once told this thinker about an insect tapping on her window after having a dream about a golden scarab. This thinker advanced the idea of events in the mind (*) mirroring external events, which he termed "synchronicity." This thinker referred to the "shadow" as the part of the personality one is not aware of. For 10 points, name this Swiss psychologist who included anima and animus among the archetypes that make up the "collective unconscious."**

ANSWER: Carl (Gustav) **Jung**

< Ethan Ashbrook | *Social Science* >

17. **An approximation of this equation for gas exchange can be obtained by relating two species by twenty-four times the partial pressure of carbon dioxide -- a modification known as the Kassirer-Bleich equation. The Charlot equation and Hammett function are used in place of this equation to account for high concentration solutions and (*) the autoionization of water pH equals the negative base 10 log of the acid dissociation constant plus the base 10 log of the fraction of charged species according to this equation. For 10 points, name this equation used to determine the pH of a buffer solution -- named for an American and Danish scientist.**

ANSWER: **Henderson-Hasselbalch** equation

< Michael Etzkorn | *Chemistry* >

18. **The speaker of one poem by this author asks if his friend sleeps in “a better bed than mine.” This author instructs the reader to “get you the sons your fathers got” in a poem commemorating the fiftieth anniversary of his leader’s reign. A man in one poem by this author is advised to “train for ill and not for good” since “Luck’s a chance, but trouble’s sure.” The speaker of one poem by this author was told by a (*) “wise man” to “give crowns and pounds and guineas/ but not your heart away;” while the title character of another of his poems is told “you eat your victuals fast enough.” For 10 points, name author whose poems “1887,” “When I Was One-and-Twenty,” and “Terence, this is stupid stuff” are collected in *A Shropshire Lad*.**

ANSWER: A.E. **Housman** [or Alfred Edward **Housman**]

< Mitch McCullar | *Non-Epic Poetry* >

19. **While washing dishes, one character in this film reads “Give us this day our daily bread” on a plate and elects to smash it. In this film, a man twists his villainous mustache while firing at soldiers underneath a tarp as a black man with crazy white hair holding a crucifix watches on. Men in this film go on a soup strike after discovering (*) maggots have infected their meat. While holding a child who was shot and trampled, a nurse in this film climbs stairs to meet soldiers to confront them for their crimes. The white cossack soldiers ruthlessly massacre the civilians of Odessa towards the conclusion of this film. For 10 points, name this 1925 film by Sergei Eisenstein about a mutiny on the title vessel.**

ANSWER: ***Battleship Potemkin*** [or ***Bronenosets Potyomkin***]

< Michael Etzkorn | *Other Fine Arts* >

20. **Mariana Jacobo Rojas proposed that one title for this figure is derived from a Nahuatl word which refers to having dominion over serpents. That Nahuatl term may have led this figure to be syncretized with Tonantzin. In a different appearance, this figure was accompanied by the “miracle of the sun” and an alleged prophecy about the assassination attempt of (*) Pope John Paul II. In Orthodox Christianity, this figure is called “Theotokos,” while in Catholicism this figure is known as “Christokos.” A prayer asking for the intercession of this figure refers to her as “full of grace” and blesses “the fruit of [her] womb.” For 10 points, name this mother of Jesus.**

ANSWER: the Blessed Virgin **Mary** [accept **Our Lady of Guadalupe** or **Our Lady of Fátima**; prompt on **Queen of Heaven**; prompt on **Mother of God**; prompt on **Our Lady**; do **NOT** accept or prompt on “Mary Magdalene”]

< Brad McLain | *Religion* >

BONUSES:

1. This play ends with Philinte and Éliante following the title character trying to change his mind. For 10 points each:

[10] Name this play about the bitterness of Alceste -- especially towards Célimène who refuses to marry him.

ANSWER: *The Misanthrope* [or *Le Misanthrope*]

[10] This French playwright of *The Imaginary Invalid* and *Tartuffe* wrote *The Misanthrope*.

ANSWER: Molière [or Jean-Baptiste Poquelin]

[10] A character with this name created by Molière is a woodcutter who pretends to be the title *Doctor in Spite of Himself*. This is also the name of the protagonist of Molière's play *The Imaginary Cuckold*.

ANSWER: Sganarelle (*suh-GAHN-uh-rell*)

< Mitch McCullar | *Drama* >

2. This language overloads the bitwise left-shift operator to print to the screen and uses two colons to scope namespaces. For 10 points each:

[10] Name this compiled language developed by Bjarne Stroustrup at Bell Labs.

ANSWER: C++ [*C plus plus*; do **NOT** accept or prompt on "C"]

[10] C++, like Java, was designed for a programming paradigm named for these entities. C++ and Java make use of class declarations to orient the coding layout around these entities.

ANSWER: objects

[10] C++ also allows for programming inline functions using an expression named for this letter. In Python, the name of this letter is used to define anonymous functions.

ANSWER: lambda

< Michael Etzkorn | *Other Science - CS* >

3. Answer the following about Chinese-American literature. For 10 points each:

[10] This author used her mother's previous marriage as the basis for her novel *The Joy Luck Club*.

ANSWER: Amy Tan

[10] This author's book *The Woman Warrior* is split into five sections and details the stories of characters like the "No Name Woman" and Fa Mu Lan.

ANSWER: Maxine Hong Kingston [or Maxine Ting Ting Hong]

[10] In a David Henry Hwang play with this animal in its title, Rene Gallimard has an affair with the opera singer Song Liling, unaware that he is actually a man. In Ray Bradbury's short story "A Sound of Thunder," Eckels changes the future after he steps on one of these animals.

ANSWER: butterfly [or *M. Butterfly*]

< Mitch McCullar | *Misc Literature* >

4. The Treaty of Riga ended this war between a Central European country and a country whose October Revolution saw the overthrow of its Tsar and rise of the Communist Bolsheviks. For 10 points each:

[10] Name this war in which forces led by Leon Trotsky invaded a country whose border is defined by the Oder-Neisse and Curzon lines. The two sides in this war split Ukraine and Belarus between themselves.

ANSWER: **Polish-Soviet** War [accept answers that mention a post-World War I and pre-World War II war between **Poland** and **Russia** such as **Polish-Russian** War of **1919-1921**; or **Russo-Polish** War of **1919-1921**; accept **Second Russo-Polish** War; accept **Polish-Bolshevik** War; accept War of **1920**; prompt on **Russo-Polish** war; prompt on **Polish Front**]

[10] This man led Poland during the Polish-Soviet War. He called for a union with Ukraine and was the principal political antagonist of Roman Dmowski.

ANSWER: Józef Klemens **Pilsudski** (*piw-SHUD-ski*) [accept reasonable pronunciations]

[10] This founder of the Bolsheviks and leader of Soviet Russia during the Polish-Soviet War issued the April Theses following his train ride from Switzerland in a sealed boxcar.

ANSWER: Vladimir Ilyich **Lenin** [accept Vladimir Ilyich **Ulyanov**]

< Sarod Nori | *Continental Europe History* >

5. During this holiday, a namesake Zakat is given to the poor in order to give them the means to celebrate this holiday. For 10 points each:

[10] Name this holiday that coincides with the first day of the month of Shawwal and the last day of a month of daytime fasting.

ANSWER: **Eid al-Fitr** [prompt on Lesser **Eid**; do **NOT** accept or prompt on “Eid al-Adha”]

[10] This month of daytime fasting precedes Eid al-Fitr. Participation in this month-long holiday is typically required for all able-bodied Muslims.

ANSWER: **Ramadan**

[10] This general term for fasting in Islam is one of the Five Pillars. It is forbidden on most holidays and is usually not practiced on Fridays.

ANSWER: **Sawm** [or **Siyam**]

< Brad McLain | *Religion* >

6. One author from this country narrated his novel *This Earth of Mankind* to his prison mates since he was not allowed to write it down. For 10 points each:

[10] Name this modern-day country whose coffee production was satirized in *Max Havelaar*, a novel written by a Dutch author under the pen name Multatuli.

ANSWER: Republic of **Indonesia**

[10] *This Earth of Mankind* is the first novel of the *Buru Quartet* by this Indonesian author.

ANSWER: **Pramoedya** Ananta **Toer** [accept either underlined name]

[10] The second novel in the *Buru Quartet* is titled for one of these people of *All Nations*. A Salman Rushdie novel is titled for a group of these people born near midnight, such as Shiva and Saleem Sinai.

ANSWER: **children** [accept **Child** of *All Nations*; accept *Midnight's* **Children** (by Salman Rushdie)]

< Mitch McCullar | *Long-Form Fiction* >

7. When the A and B parameters in this equation are set equal to zero, it reduces to the ideal gas law. For 10 points each:

[10] Name this equation of state named for a Dutch scientist that models real gases.

ANSWER: **van der Waals** equation

[10] Ideal gases also deviate from the chemical potential of real gases, so they are modified with this quantity. This quantity can be thought of as the “effective pressure” of a gas, and its namesake coefficient is written in terms of the compressibility factor and pressure.

ANSWER: **fugacity**

[10] The fugacity coefficient of a real gas is represented with this letter. The work function of a surface is typically represented by this non-W letter.

ANSWER: **phi**

< Michael Etzkorn | *Chemistry* >

8. Answer some questions about vowels. For 10 points each:

[10] Vowels are one of the main two classes of speech sounds, along with this other group of letters used to form words.

ANSWER: **consonants**

[10] This property of a vowel is determined by where the tongue is relative to the roof of the mouth when the vowel is voiced. This property is the vertical component of the IPA’s vowel trapezoid.

ANSWER: vowel **height** [prompt on openness; prompt on closeness]

[10] In contrast to diphthongs, this phenomenon occurs when two consecutive vowels are pronounced in different syllables. This phenomenon occurs in the word “biology” and the name of this term itself.

ANSWER: **hiatus** [or **diaeresis**]

< Ethan Ashbrook | *Social Science* >

9. Name some important events involving the Quebec sovereignty movement. For 10 points each:

[10] This agreement, which was not ratified due to the opposition of Manitoba and Newfoundland, declared that Quebec was a “distinct society.” It was the catalyst for the creation of the Bloc Québécois (*BLOK ke-bec-WA*).

ANSWER: **Meech Lake** Accord [or Accord du **lac Meech**]

[10] The successor agreement to the Meech Lake Accord was named after Charlottetown, the capital of this smallest Canadian province. Another set of negotiations in this province led to the formation of the Canadian Confederation.

ANSWER: **Prince Edward Island** [accept **Île-du-Prince-Édouard**; accept **PEI**]

[10] Brian Mulroney, the Prime Minister during the Meech Lake and Charlottetown Accords, was a member of this party. This party, the successor to John Macdonald’s party, formed the opposition during World War II.

ANSWER: **Progressive Conservative** Party of Canada [or Parti **progressiste-conservateur** du Canada; prompt on Conservative; prompt on PC; prompt on Tory; prompt on Progressive; prompt on Conservateur; prompt on Progressiste]

< Sarod Nori | *Non-European, Non-Commonwealth History* >

10. This poet said love is a fart since “it pains a man when ’tis kept close/ And others doth offend when ’tis let loose.” For 10 points each:

[10] Name this Cavalier poet whose poem “Why so pale and wan fond lover” appears in his play *Aglaura*.

ANSWER: Sir John **Suckling** (the poem in the lead-in is “Love’s Offence”)

[10] The Cavalier poet Richard Lovelace wrote a poem addressed to Althea whose speaker states that “stone walls do not” make one of these institutions, “nor iron bars a cage.”

ANSWER: **prison** [accept **jail** or other synonyms; accept “To Althea, from **Prison**”]

[10] This other Cavalier poet included the poems “Corinna’s Going A-Maying” and “To the Virgins, to Make Much of Time” in his collection *Hesperides*.

ANSWER: Robert **Herrick**

< Mitch McCullar | *Non-Epic Poetry* >

11. Answer some questions about the philosophy of science. For 10 points each:

[10] This English philosopher, who may have originated the phrase “knowledge is power,” formulated an early example of the scientific method in his book *Novum Organum*.

ANSWER: Francis **Bacon**, 1st Viscount of St Alban [do **NOT** accept or prompt on “Roger Bacon”]

[10] In this author’s history of science, *The Structure of Scientific Revolutions*, he details the consequences of breakthroughs in the field of science, exploring how paradigm shifts impact the research of scientists.

ANSWER: Thomas (Samuel) **Kuhn**

[10] This work, originally sponsored by Cardinal Corsini, proposed that man arose from a “beastial age.” This work by an early 18th-century Italian philosopher argues that history is relatively cyclical in nature and sought to develop a science of humanity.

ANSWER: *The **New Science*** [or **Scienza Nuova**; accept Principi di **Scienza Nuova** d'intorno alla Comune Natura delle Nazioni; or (Principles/Origins of) **New Science** (About/Surrounding the Common Nature of Nations)] (by Giambattista Vico)

< Ethan Ashbrook | *Philosophy* >

12. Answer some questions about some of the women facing their fair share of controversies while running in the Democratic primary for the election of 2020. For 10 points each:

[10] This congresswoman, the only practicing Hindu in the House, served in Kuwait for two years. She has faced controversy for her ties to the nationalist organization Vishwa Hindu Parishad.

ANSWER: Tulsi **Gabbard**

[10] This progressive Massachusetts senator who proposed the Consumer Financial Protection Bureau has faced controversy for her disputed Native American ancestry.

ANSWER: Elizabeth (Ann) **Warren** (née Herring) [prompt on Elizabeth Ann **Herring**]

[10] This senior senator from Minnesota has had to navigate accusations of poor leadership for her high staff turnover rate and reports of controlling her staffers by fear and intimidation.

ANSWER: Amy (Jean) **Klobuchar**

< Michael Etzkorn | *Misc - Current Events* >

13. This composer won the top three prizes of the 1959 Warsaw Autumn Festival for all three works he submitted anonymously. For 10 points each:

[10] Name this Polish composer of the *St. Luke Passion* and *Threnody for the Victims of Hiroshima*.

ANSWER: Krzysztof **Penderecki** (*pen-der-RET-skee*)

[10] This other Polish composer used “limited aleatoricism” in pieces like *Jeux vénitiens* (*joo vay-nee-syen*). 9/8 drum ostinato appears in the *Intrada* first movement of this composer’s *Concerto for Orchestra*.

ANSWER: Witold **Lutoslawski** (*loo-toh-SWAV-skee*)

[10] A solo soprano sings Polish prayers in Henryk Górecki’s (*go-ret-skees*) *Symphony of Sorrowful Songs*, a symphony of this number. This is also the number of the Eroica Symphony.

ANSWER: **three**

< Dylan Bowman | *Music* >

14. Name some interpretations of quantum mechanics. For 10 points each:

[10] This interpretation posits that physical states don’t have definite properties until they are observed, which causes the state to reduce to a particular value, called wave-function collapse. This interpretation, named for a Danish city, was developed by Niels Bohr and Werner Heisenberg.

ANSWER: **Copenhagen** interpretation

[10] Hugh Everett proposed that the wave function might not actually collapse at all, and instead these entities exist to account for all the possible states that the wave function could reduce into.

ANSWER: **many-worlds** interpretation [accept logical equivalents like **multiverses** or **multiple universes** or **many-universes**]

[10] Some physicists think that global varieties of these constructs, such as in pilot wave theory, would explain away the indeterminism and probabilistic nature of quantum mechanics. Bell’s theorem proves that local varieties of these constructs cannot exist.

ANSWER: **hidden variables** [accept **hidden variable** theories; accept global **hidden variables**; accept local **hidden variables**]

< Nathan Fredman | *Physics* >

15. For 10 points each -- name some artists who inspired Salvador Dali:

[10] Dali depicted [this artist] *Painting the Infanta Margarita with the Lights and Shadows of His Own Glory*, a Surrealist take on this Spanish artist’s *Las Meninas*.

ANSWER: Diego Rodríguez de Silva y **Velázquez**

[10] Another work by Dali is titled for this painting’s *Archeological Reminiscence*. In Dali’s rendition of this Millet (*mill-AY*) painting, two rocks take the form of the praying peasants.

ANSWER: L’**Angelus** [accept Millet’s **Angelus**; accept **Archeological Reminiscence of Millet’s Angelus**]

[10] Dali’s *Gala Contemplating the Mediterranean Sea Which at Twenty Meters Becomes the Portrait of Abraham Lincoln* is an homage to this Color-Field artist who painted *The Seagram Murals*.

ANSWER: Mark **Rothko** [accept Markus Yakovlevich **Rothkowitz**]

< Iain Carpenter | *Painting and Sculpture* >

16. Proteins of this pathway have a palmitate attached to their serine residue which mediates interaction with a receptor protein -- the only known post-translational modification by a lipid to mediate a ligand-receptor reaction. For 10 points each:

[10] Name this signalling pathway. The proteins in this pathway bind to *Frizzled* receptors and are active during development along with Hedgehog and Notch.

ANSWER: **Wnt** signalling pathway [prompt on wingless]

[10] Wnt gets its name as a portmanteau of “Wingless” and “Integrated” referring to overexpression of the Wnt-1 gene discovered when the mammary tumor virus or MMTV integrates into a mouse’s genome. MMTV is this type of virus that goes against the central dogma by producing DNA from RNA.

ANSWER: **retrovirus**

[10] The “wingless” part of the Wnt name comes from *Drosophila melanogaster*, a model organism commonly referred to as the “fruit fly.” This scientist studied the genetics of *Drosophila* and showed that their white-eyed mutation was sex-linked.

ANSWER: Thomas Hunt **Morgan**

< Michael Etzkorn | *Biology* >

17. Name some things about ancient Roman foods. For 10 points each:

[10] This ubiquitous sauce was made from fermenting ground fish intestines mixed with salt. Kosher jars of this sauce were found at Pompeii, and factories that made this sauce were usually outside city limits because of the horrific smell.

ANSWER: **garum**

[10] Romans who served as these people ate raw garlic because of a common belief that raw garlic would strengthen them. These people were judged with the *pollice verso*.

ANSWER: **gladiators** [prompt on slaves]

[10] Grain used to make this food was given to the poor in the city of Rome for free. This food along with circuses was the subject of a quip by Juvenal.

ANSWER: **bread**

< Nathan Fredman | *Classics, British or Commonwealth, Other* >

18. This man’s mother was the air spirit Ilmatar, who was pregnant with him for 730 years. For 10 points each:

[10] Name this eternal bard who worked with Lemminkäinen and Ilmarinen to recover the Sampo.

ANSWER: **Väinämöinen**

[10] Väinämöinen once wished to construct a boat, but lacked the magic words to do so. Väinämöinen learned the magic words after slipping into this tree-giant’s stomach, giving this giant a bad stomachache until he relinquished the runes.

ANSWER: Antero **Vipunen** [accept Antero **Wipunen**; prompt on Antero alone]

[10] Väinämöinen is the main character of this national epic of Finland that was compiled by Elias Lönnrot.

ANSWER: the **Kalevala**

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

19. One album by a player of this instrument was composed on a series of index cards with vague instructions meant to inspire the musicians to improvise. For 10 points each:

[10] Name this instrument played by John Zorn on the avant-garde album *Spillane*. On the song “Acknowledgement,” this instrument is accompanied by oral chants of the album’s title with the bass ostinato “F A-flat, F B-flat.”

ANSWER: **saxophone** [accept tenor, soprano, or alto **saxophone**]

[10] “Acknowledgement” appears on *A Love Supreme* by this American saxophonist. His other albums include *Ascension* and *Giant Steps*.

ANSWER: John **Coltrane**

[10] The influence of calypso music on this Virgin Islander and tenor saxophonist can be heard on the song “St. Thomas” which appears on this musician’s album *Saxophone Colossus*.

ANSWER: (Theodore Walter) “Sonny” **Rollins**

< Brad McLain | *Other Fine Arts* >

20. This policy stated that “people of a Territory can, by lawful means, exclude slavery from their limits prior to the formation of a State constitution.” For 10 points each:

[10] Name this policy formulated by Stephen Douglas in his debates with Abraham Lincoln. This policy, which derives its name from an Illinois city, was representative of Douglas’s “popular sovereignty” principle.

ANSWER: **Freeport** Doctrine [accept substitutes for doctrine like “policy”]

[10] Douglas opposed the Lecompton Constitution, which was a pro-slavery constitution in this state. This state was created at the same time as Nebraska and John Brown was present in this state during its “bleeding” period.

ANSWER: **Kansas**

[10] Stephen Douglas served alongside Lyman Trumbull, who lost his bid for the 1872 Liberal Republican nomination to this politician. During the election, this politician received votes from the electoral college, despite the fact that he was dead.

ANSWER: Horace **Greeley**

< Sarod Nori | *US History* >