

MKULTRA 2015: Gohyakunijyuu no Omoide

The Milton Keynes Ultimate Liaison of Trash and Academia

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Round 3 - Packet by Butchershop Quartet

Tossups

1. **One of the victims of these creatures was a Thracian brother-in-law of the Boreads, whom the gods blinded for revealing their plans. The Boreads then chased these creatures, and may have killed them were it not for the intervention of Iris. Their island home thus became known as the Strophades, while in the *Inferno* they (*) nested in the forest of suicides. Their favourite method of punishment is to steal their victim's food just before they can eat it, and they also carry murderers to their sisters, the Furies. For 10 points, name these Greek mythological creatures, birds with the heads of women, who can also be used as an insult for an aggressively shrewish woman.**

ANSWER: Harpies [accept Harpvya]

2. **The pianist John Harrison Scoville was a key figure in this event, and Durham University student Stuart Swift's presence at this event was praised. A poll suggested that the central figure of this event, who was once described as a "beacon of light in a world otherwise fraught with darkness and despair" would be hooking up with "Nigel Farage doused in (*) peri-peri", which was just one instance of a plethora of inane Nando's references surrounding this event. More serious viewers of this event found a Devienne concerto and a Gaubert sonata to be good revision music. For 10 points, name this event that saw over fifty-thousand people watch a live-stream of a University of California student play a woodwind instrument.**

ANSWER: Azeem Ward's Senior Flute Recital [Accept anything reasonably relating to Azeem and a flute, prompt on 'Cheeky Nando's?']

3. **It's not a game, but Steve Russell wrote the first high-level program of this type on an IBM 704, after he discovered that a theoretical model by John McCarthy could actually be implemented in machine code; that program and its successors established the "homoiconic" properties of McCarthy's model. Programs of this type for use with FORTH change states through the use of colons and semicolons. Those programs are (*) meta-circular, as are examples of these programs for LISP. Micro-Soft's first commercial product was a program of this type that allowed the Altair computer to run BASIC. For 10 points each, name these computer programs that directly execute code in a language, contrasted with compilers.**

ANSWER: interpreters

4. **One member of this duo released an album last year, the name of which ended with 'Perfect Strangers'. That same member was invited to the White House earlier this year to speak with President Obama. The other member of this duo is married to Sarah Urist, who does not appear in any of this duo's videos. This channel has a rule where videos cannot be longer than 4 minutes, unless they are educational, and this channel started the (*) Project For Awesome campaign in 2007. The members of this channel helped create the annual conference VidCon, and one member of this channel wrote about Hazel Lancaster's struggle with cancer in "The Fault in Our Stars". For 10 points, name this YouTube channel comprised of siblings John and Hank Green.**

ANSWER: VlogBrothers [or John and Hank Green or Green Brothers before mentioned; prompt on "John Green" or "Hank Green"]

5. **A Philadelphian businessman commissioned this work, though on completion, due to its controversial content, he exchanged it for the artist's painting *The Pathetic Song*. Like the artist's painting *Arcadia*, this painting was based upon several photos taken by the artist at the title location. The artist included a self portrait in the bottom right of this picture, as he attempts to move towards his (*) Irish Setter, Harry, whose body is submerged. In this painting, a man stands upon a rock with his hands on his hips looking down at another man diving into the water. For 10 points, name this Thomas Eakins painting that depicts six naked men bathing in a lake.**

ANSWER: The Swimming Hole [accept Swimming; accept The Old Swimming Hole]

6. **The Ubwari Peninsula indents the west shore of this lake, which is only periodically drained by its major outflow, the Lukuga River. Che Guevara used the western shores of this lake as a training camp and water from Lake Kivu flows into this lake via the Ruzizi River. The port of Kigoma is situated on the shore of this lake, as is the capital of (*) Burundi, Bujumbura. Henry Stanley found Dr. Livingstone in the town of Ujiji on the shore of this lake, which is only surpassed in volume and depth by Lake Baikal. Larger than Lake Malawi, for ten points, name this long African lake that shares its name with a state now joined with Zanzibar.**

ANSWER: Lake Tanganyika

7. **The leader of one of this war's belligerents was criticised for travelling to Europe seeking more money and armaments. Juan Fanning's gallant charge failed to prevent defeat for one of this war's participants at the Battle of Miraflores, leading to a national capital being occupied. The ironclad *Huascar* was captured at the Battle of Angamos in this war, and the alliance between two of this war's participants was broken following defeat at the Battle of (*) Tacna. In the run-up to this war, the introduction of a 'ten cents' tax on nitrates led to one of this war's belligerents occupying Antofagasta, and this war resulted in one nation becoming landlocked. For ten points, name this 1879-83 war that saw Bolivia and Peru cede the Atacama Desert to Chile.**

ANSWER: War of the Pacific or Guerra del Pacifico (accept Saltpetre War; prompt on "Salitre War")

8. **In one novel by this author, a girl imagines herself representing her country in the Berlin Olympics while beating nettles with a hazel branch. Slipping on a polar bear skin rug and banging his neck on a glass coffee table causes the death of physicist Tom Aldous in another novel by this author. A (*) Nobel-prize winning physicist who was criticized for suggesting that boys were more suited to science than girls is that novel's protagonist, Michael Beard. In a novel by this author, it is revealed that the Paul Marshall raped Lola, although Robbie Turner was falsely convicted on evidence given by Briony Tallis. For 10 points, name this author of *Solar* and *Atonement*.**

ANSWER: Ian McEwan

9. **A movement of one solo piano composition by this composer imitates the sound of poorly tuned bagpipes; that work also features a highly percussive movement entitled *With Drums and Pipes*. Another work by this composer of *Out of Doors* features a xylophone solo based upon the (*) Fibonacci sequence as part of a movement exemplifying his "Night Music" style. An opera by this composer based on a Charles Perrault tale has Judith find a torture chamber, a lake of tears, and the three former wives of the title character, after opening seven doors. For 10 points, identify this Hungarian composer of *Music for Strings*, *Percussion and Celesta* and *Duke Bluebeard's Castle*.**

ANSWER: Béla (Victor János) Bartók

10. **Catholics believe that this man is one of the Fourteen Holy Helpers, and can be called upon for his particular skill in healing animals. In Islam, this man is often identified with Al-Khidr, and is believed to have performed his most famous feat in the sea off Beirut. Despite being one of his best officers, Diocletian had this man executed for refusing to make an offering to the pagan gods. He is one of the patron saints of (*) Genoa, which is probably the origin of his flag. In the Middle Ages, he was portrayed as a chivalrous crusader knight, and Edward III dedicated the Order of the Garter to this man. For ten points, "cry God for England, Harry and" this dragon-slaying man.**

ANSWER: Saint George [accept Georgius]

11. **An American woman was nominated for a Grammy and an American Music Award for her covers of two songs from this country, one of which asks the title woman "if everybody wants you, why isn't anybody calling?" This country that produced *Gloria* and *Self Control* is also the subject of parody in a song that infamously stole the (*) British number one spot from a much more deserving song named for the capital of a neighbouring country. That lesser song is about the singer's mother, who insists that he "gotta no respect". For 10 points, name this European country, from which Joe Dolce Music Theatre most certainly does not originate.**

ANSWER: Italy

12. Later in his career, this man said he regretted signing the Therapeutic Abortion Act. This man ran for governor on the promise to “send the welfare bums back to work” and this man declared a state of emergency in Berkeley after “Bloody Thursday”. As president this man fired over 11 000 air traffic controllers after an illegal strike and he backed presidential candidate (*) Barry Goldwater in a speech called ‘A Time for Choosing’. The rise to power of the New Jewel Movement led this man to order the invasion of Grenada, and he implored Mikhail Gorbachev to “tear down” the Berlin Wall. For ten points, name this 40th President of the United States who defeated Jimmy Carter in the 1980 US presidential election.

ANSWER: Ronald (Wilson) Reagan

13. This virus cannot infect neurons due to the presence of the FEZ-1 gene. Resistance to this virus can be caused by the mutation “CCR5 delta 32”. This virus’ *env* gene codes for gp160, which is cleaved into two smaller glycoproteins that cover the viral envelope. This virus’ (*) gp120 is recessed until fusion, which helps prevent antibody attack. It’s not herpes, but sufferers of this lentivirus are at risk of contracting Kaposi’s sarcoma and other opportunistic infections, as reduced numbers of CD4-positive T cells weaken their immune system. For 10 points, name this retrovirus that causes AIDS.

ANSWER: Human Immunodeficiency Virus [do not accept “AIDS”, as the whole question is about the virus]

14. One play by this man concludes with a baby crying and a mother dying when the clock strikes midnight; in that play, the title character is death itself. In addition to *Intruder*, another play by this man begins with one of the title characters refusing to retrieve a crown from a stream, and centres on a love triangle between Golaud and the two title characters. In one play by this man, (*) Tytyl and Mytyl search for the title animal to find happiness, which turns out to be their own turtle dove, which has changed colour. Another work by this man was the inspiration of a tone poem by Schoenberg and an opera by Debussy. For 10 points, name this Belgian symbolist playwright of *The Blue Bird* and *Pelléas and Mélisande*.

ANSWER: Maurice (Polydore Marie Bernard) Maeterlinck

15. A key step in the proof of this theorem was proving the “no local collapsing theorem”, which eliminated some of the difficult asymptotic behaviour presented by the cigar-type soliton. This result can be proved in higher dimensions by using the “Whitney Trick” to prove the h-cobordism theorem. This result, a special case of (*) Thurston’s Geometrisation Conjecture, was proved using Ricci flow with surgery, and states that every simply connected, closed 3-manifold is homeomorphic to the 3-sphere. For 10 points, identify this result proved by Grigori Perelman, the only one of the Millennium prize problems to be proved so far.

ANSWER: Poincaré Conjecture [accept Thurston’s Geometrization conjecture before mentioned]

16. One song by this band contains the lines “They are invincible / They seem immune to all our herbicidal battering”. This band, who recorded the song “The Return of the Giant Hogweed”, wrote a 23 minute long track containing the sections “Lover’s Leap” and “Ikhnaton and Itsacon and Their Band of Merry Men” called “Supper’s Ready”. The video to the track “Land of Confusion” sees this band appear as (*) Spitting Image puppets. This band released a satire of televangelism in the song “Jesus He Knows Me”, as well as a song featuring the lines “She reaches in, and grabs right hold of your heart” and “It takes control and slowly tears you apart”; that song is “Invisible Touch”. Peter Gabriel and Phil Collins have sung in, for ten points, which English rock band?

ANSWER: Genesis

17. This work’s third section quotes Virgil’s description of Tartarus whilst discussing the potential locations of hell. It’s not by Plato, but this work begins by establishing parallels between the human body and the state, before briefly discussing the senses and scolding universities for their frequency of insignificant Speech. Another section of this work describes how, with no (*) governing body, mankind would enter a “war of all against all”. That section, “Of Man”, describes how under such circumstances, life would become “solitary, poor, nasty, brutish, and short”. For 10 points, name this work by Thomas Hobbes, named for a fire-breathing creature in the Book of Job.

ANSWER: Leviathan or *The Matter, Forme and Power of a Common Wealth Ecclesiasticall and Civil*

18. **Hugh of Avalon rebuilt this city's cathedral after an 1185 earthquake. Eighteen Jews from this city were executed in the Tower of London after being falsely accused of blood libel after the death of Little Saint Hugh and William, Earl of Pembroke, defeated an army of the future Louis VIII of France at this city, a turning points in the (*) First Barons' War. William Foster & Co. built the Little Willie prototype tank in this city and King Stephen was captured by an army loyal to Empress Matilda following a battle at this city. The Fosse Way and Ermine Street meet at, for ten points, which English city, known as Lindum Colonia in Roman times?**

ANSWER: Lincoln

19. **This man names an effect where some metals exhibit small positive values of magnetic susceptibility when a magnetic field is applied owing to the splitting of the conduction band. A set of three Hermitian matrices named for this man, with span isomorphic to the quaternions, are the matrix representations of certain spin operators. This man's namesake equation is a statement of the (*) Schrödinger equation for particles with spin one-half. This man is most famous for a result stating that no two fermions can have the same set of quantum numbers simultaneously. For 10 points, identify this physicist who formulated a namesake "exclusion principle".**

ANSWER: Wolfgang Ernst Pauli

20. **In one work by this author a man is beaten to death by soldiers for throwing a beer glass in a woman's face, and a woman rips a set of gold teeth out of her mouth and faints. Another work by this author is set in an alley controlled by strongmen, or futuwwat, and it features Arafa, a symbol of modern science. In another, (*) Fahmy studies law before getting shot by the British, and his brother Yasim inherits a fondness for fine clothes and adultery from his father Al-Sayyad Ahmad. This man was stabbed in the neck over the content of an allegorical work about the origins of Abrahamic religions. *Children of Gebelawi*. For 10 points, name this Egyptian author of *Palace Walk*, *Palace of Desire* and *Sugar Street*, his Cairo Trilogy.**

ANSWER: Naguib Mahfouz

Bonuses

1. The death of Boris Godunov resulted in the start of this turbulent period in which a famine killed about one third of the population. For ten points each:

[10] Name this period in Russian history between the end of the Rurik Dynasty and start of the Romanov Dynasty.

ANSWER: **Time of Troubles**

[10] The Time of Troubles saw three men attempt to gain the Russian throne by pretending to be this youngest son of Ivan the Terrible. The first one actually managed to become Tsar.

ANSWER: Tsarevich **Dmitry** or **Dmitry** Ivanovich (accept **Dmitry** of Uglich or **Dmitry** of Moscow)

[10] The first False Dmitry was deposed by this man, who then ruled as Tsar for four years. This man also investigated the death of Tsarevich Dmitry and concluded he had died by a self-inflicted stab wound.

ANSWER: **Vasili IV** of Russia or **Vasili** Ivanovich **Shuysky**

2. For 10 points each, name these Hispanophone authors:

[10] This Filipino author and national hero wrote *Noli Me Tángere* and its sequel *El Filibusterismo*, but was unfortunately executed by the Spanish Army.

ANSWER: José (Protasio) **Rizal** (Mercado y Alonzo Realonda)

[10] One work from this Cuban poet's *Versos Sencillos*, or *Simple Verses*, was adapted into the patriotic song *Guantanamera*.

ANSWER: José **Martí**

[10] This Chilean poet included the fitting line "It is the hour of departure. Oh abandoned one" to conclude his *Twenty Love Poems And A Song Of Despair*.

ANSWER: Pablo **Neruda** (You can accept Neftalí Ricardo **Reyes Basoalto**, but be sure to tell them they're weird.)

3. Answer the following questions about some lab procedures you might carry out when analysing DNA, for 10 points each:

[10] You may carry out this procedure first, whereby samples of DNA are separated by length. In this technique, the DNA samples are loaded onto an agarose matrix, after which an electric field is applied, causing the DNA to travel along the plate.

ANSWER: Gel **Electrophoresis**

[10] After electrophoresis, you decide to apply this technique by placing a nitrocellulose membrane on top of the gel and heating it, after which you use a hybridisation probe to search for certain sequences in the DNA.

ANSWER: **Southern** Blot

[10] If you wanted to sequence larger DNA fragments, you could have used this technique which relies on selective incorporation of ddNTPs, named for a British scientist who won his first Nobel Prize for the elucidation of insulin's primary structure.

ANSWER: **Sanger** Sequencing

4. In the course of avenging his sister, this man stops a train at Tucumcari before cracking a safe for her rapist. For 10 points each:

[10] Name this hat-shooting "man in black", an ally of Manco, in *For a Few Dollars More*.

ANSWER: **Colonel** Douglas **Mortimer** [Accept either underlined portion]

[10] Fans of *For a Few Dollars More* might well have been confused upon seeing Mortimer's actor playing an altogether different role in that film's prequel/sequel/unrelated film. Name that character.

ANSWER: **Angel Eyes** (Accept **The Bad** or **Il Cattivo**)

[10] Both Angel Eyes and Colonel Mortimer were portrayed by this actor, who also played the New York Police Commissioner in *Escape From New York*.

ANSWER: Lee **Van Cleef**

5. For 10 points each, answer some questions about a depressing American artist:

[10] This man himself refused to classify his work into any particular movement, but is generally considered to be an abstract expressionist. Some of his works have great titles, like *No. 61 (Rust and Blue)*, and often just consist of stripes on canvas.

ANSWER: Mark **Rothko**

[10] Towards the end of his life, Rothko made several bleak works to be hung in his namesake chapel, located in this city, also home to the nearby Menil Collection.

ANSWER: **Houston**

[10] On the walls of the chapel are this many of Rothko's works. This number is also used to denote which of Beethoven's piano sonatas the Moonlight Sonata is, and is also the number of "Black Paintings" by Goya.

ANSWER: **14**

6. One section of this poem speaks of how a hunter will fail to shoot the title animal. For 10 points each:

[10] Name this poem in which the speaker muses about the title animal, asking the question "Dost thou pursue / thy solitary way?", as well as hoping that God "will lead [his] steps aright."

ANSWER: **To a Waterfowl**

[10] *To a Waterfowl* is a poem by this American poet, who also wrote about the title ailment in his poem *Consumption*.

ANSWER: William Cullen **Bryant**

[10] Probably the best known poem by Bryant is this "Meditation upon Death", which, despite being very sombre throughout, ends on a positive note, instructing the reader to "lie down to pleasant dreams" in death.

ANSWER: **Thanatopsis**

7. The beginning of the fourth section of this work contains a section discussing the merits and weaknesses of Plato's view of what ideas were. For 10 points each:

[10] Name this work, written after Hume woke its author "from his dogmatic slumbers". is an attempt to find the limits of the title concept, as well as analysing concepts such as the "Transcendental Aesthetic".

ANSWER: *The **Critique of Pure Reason*** [Accept **Kritik der reinen Vernunft**. Also accept **KrV**, but be sure to give them a funny look.]

[10] This second follow-up to *Critique of Pure Reason* examines aesthetics and teleology, along with the four "reflective" types of the title concept.

ANSWER: *The **Critique of Judgment*** [Accept **Kritik der Urteilskraft**. Accept **KdU**, but give them an even funnier look this time.]

[10] Both *Critique of Pure Reason* and *Critique of Judgment* were written by this man, who also invented the Categorical Imperative.

ANSWER: Immanuel **Kant** [If they say IK, throw something at them.]

8. Answer some questions about the bigger brother of the oboe, the cor anglais. For 10 points each:

[10] Arguably the most famous cor anglais solo is the one depicting the title animal in *The Swan of Tuonela*, a tone poem from this Kalevala-themed Sibelius suite.

ANSWER: **Lemminkäinen** Suite [accept "**Four Legends** from the Kalevala"]

[10] A cor anglais and offstage oboe representing shepherd have a dialogue in this composition's "Scene in the Fields" movement. This composition is subtitled "An episode in the life of an artist, in five parts".

ANSWER: **Symphonie Fantastique**

[10] This composer included a solo cor anglais alongside a solo trumpet and string orchestra in his composition *Quiet City*, which was originally conceived as incidental music to an Irwin Shaw play.

ANSWER: Aaron **Copland**

9. For 10 points each, answer these questions on (but not in) Old English.

[10] This letter was similar in sound to Eth, and is the reason why so many pubs are called *Ye Olde Inne*. It can still be seen in modern Icelandic.

ANSWER: **Thorn** (accept **Thurs** or **Thurisaz**)

[10] The first of these texts written in English - indeed, any Germanic language - was issued by Æthelberht of Kent and lists wergild prices for hairs, toenails and other body parts.

ANSWER: **Law Code** (Accept clear knowledge equivalents, antiprompt on ‘Textus Roffensis’)

[10] Old English occasionally used this case, which indicates the use of something. By the Middle English period, this case had merged with the dative.

ANSWER: **Instrumental**

10. Answer the following about the mathematician Otto Hölder, for 10 points each:

[10] Cantor’s function is the canonical example of a function that has the Hölder form of this property, but not the Lipschitz form. Informally, a function has this property if you can draw its graph without removing your pen from the paper.

ANSWER: **Continuity** [Accept word forms]

[10] Hölder’s inequality is a generalisation of this other really useful inequality. One formulation of it states that the square of the sum of a product is less than or equal to the product of the sums of the squares.

ANSWER: **Cauchy-Schwarz** inequality [prompt on “Cauchy’s inequality”]

[10] Hölder co-names a theorem with this man stating “Any two composition series for a group are equivalent”. This French mathematician is more famous for a theorem stating, “A closed embedded curve separates the plane into two disjoint connected regions”, which is a total bitch to prove for nowhere differentiable curves.

ANSWER: (Marie Ennemond) Camille **Jordan**

11. Answer the following about an alien species from Doctor Who, for 10 points each:

[10] Probably the most famous enemies of the Doctor are these octopus-like aliens, who generally encase themselves in a suit of their namesake metal. Their weapons look suspiciously like a whisk and a toilet plunger, and they are known to shout “EXTERMINATE!!!” on occasion.

ANSWER: **Daleks** [prompt on “Kaleds”]

[10] Along with the Thals, the Daleks were inhabitants of this planet, notable geographic features of which include the Sea of Acid and the Ocean of Ooze.

ANSWER: **Skaro**

[10] This member of the Cult of Skaro breached the time lock surrounding the Time War to save the Davros, losing his mind in the process. This Dalek eventually betrayed Davros, after he became one of the few Daleks to develop remorse for their actions.

ANSWER: Dalek **Caan**

12. Lord Colin Renfrew is a pretty cool guy. As well as his extensive work on radio-carbon dating, archaeogenetics, language prehistory and preventing looting at archaeological sites, he also was also Master at Jesus College, Oxford. For ten points each:

[10] Renfrew was noted for his work on this language group, hypothesised to have been spoken by the Neolithic inhabitants of Eurasia.

ANSWER: **Proto-Indo-European** [accept **PIE**]

[10] Renfrew developed this hypothesis to explain the origins of Proto-Indo-European. It posits that the language spread from the namesake region along with the development of farming throughout the Mediterranean approximately 9,000 years ago.

ANSWER: **Anatolian** hypothesis

[10] This language is the only extant pre-Indo-European language in Western Europe. The so-called ‘*aizkora* controversy’ concerns the possibility of several words in this language sharing a root with the word for ‘stone’.

ANSWER: **Basque**

13. The Acts of Union, which united the Kingdoms of England and Scotland as a single state, were passed during the reign of this monarch. For ten points each:

[10] Name this last Stuart monarch.

ANSWER: **Anne**

[10] The failure of both Anne and her sister, Mary II, to have any surviving children led to this act being passed. It passed the line of succession to Sophia of Hanover and her descendants.

ANSWER: Act of **Settlement** 1701

[10] As Speaker of the House of Commons, this man oversaw the passage of the Act of Settlement. In 1711, Anne made this man Lord High Treasurer.

ANSWER: Robert **Harley** or **1st** Earl of **Oxford** and Earl of **Mortimer**

14. In this story, Mabel is asked to cover her daughter with a blanket because “we don’t want our little queen to catch a cold”. For 10 points each:

[10] Name this short story where Albert Taylor feeds his daughter the title substance, which causes her to look like an insect.

ANSWER: **Royal Jelly**

[10] The author of *Royal Jelly* also wrote stories such as *The Vicar of Nibbleswicke* and *Esio Trot* to raise awareness and funds for sufferers of this condition.

ANSWER: **Dyslexia**

[10] This author of *Esio Trot* and *Royal Jelly* is probably better known for his children’s books such as *James and the Giant Peach*.

ANSWER: Roald **Dahl**

15. For ten points each, name these islands of Japan.

[10] The US occupied this member of the Volcanic Islands up until 1968. An iconic photograph taken on this island’s Mount Suribachi on 23rd February 1945 sees the American flag being raised.

ANSWER: **Iwo** Jima or **Iwo** To

[10] The name of this island was formerly used as a slang term for guns, as their first documented introduction was by storm-blown Portuguese traders on this island.

ANSWER: **Tanegashima**

[10] This northernmost of Japan’s main islands is home to the city of Sapporo.

ANSWER: **Hokkaido** (accept **Ezo**, **Yezo**, **Yeso** or **Yesso**)

16. A portion of this aria is quoted in the “Fossils” movement of Saint-Saens’ *Carnival of the Animals*. For 10 points each:

[10] Name this aria, in which Rosina confesses her love for Lindoro. In it, she sings about how she is “obedient, gentle, loving”, but if provoked, will play “a hundred tricks” before she yields.

ANSWER: “**Una voce poco fa**” (“voce” is pronounced “VO-chay”) [or “**A voice a while back**”]

[10] This tongue-twisting aria, from the same opera as “Una voce poco fa” has the title character brag about how great he is, saying he has “Razors and combs, lancets and scissors” at his command, and includes a section where he repeats his own name several times.

ANSWER: “**Largo al factotum**” [or “**Make way for the factotum**”]

[10] “Una voce poco fa” and “Largo al Factotum” are arias from this Rossini opera based on a Beaumarchais play, in which Figaro helps Count Almaviva woo Rosina.

ANSWER: *The* **Barber of Seville** or *The Futile Precaution* [or *Il* **barbiere di Siviglia**, ossia *L’inutile precauzione*]

17. Answer the following about a rule governing certain chemical reactions, for 10 points each:

[10] This rule, named for a Russian chemist, states that in certain reactions, the more substituted alkene will be produced.

ANSWER: **Zaitsev**’s rule

[10] Zaitsev’s rule can predict the regioselectivity of reactions of this type. In this type of reaction, two substituents are removed from a molecule, and they are contrasted with addition reactions.

ANSWER: **Elimination** reactions

[10] These compounds may be methylated and then undergo Hofmann elimination in a process which violates Zaitsev’s rule. These compounds may be formed from alkyl halides in the Gabriel reaction.

ANSWER: **Amines** [do not accept or prompt on “amides”]

18. For ten points each, answer these questions on one of the founding members of the UK Music Hall of Fame.

[10] Name this mononymous singer, whose albums include such hits as *Like a Virgin* and *Ray of Light*.

ANSWER: **Madonna**

[10] Everyone knows that Madonna's first single in Britain was *Lucky Star*, but what was her first UK No. 1, which was only released as a B-side in America? It relates how Madge is “tired of dancing here all by myself”.

ANSWER: **Into the Groove**

[10] Madonna also wrote this song from the *Dick Tracy* soundtrack, which would spawn a gay-scene dance phenomenon.

ANSWER: **Vogue**

19. The Japanese National anthem's lyrics were created during this period. For 10 points each:

[10] Name this early period of Japanese history, during which Lady Murasaki wrote the Tale of Genji.

ANSWER: **Heian** period [or **Heian** jidai]

[10] The Heian period ended due to this war between the Taira and the Minamoto, which included the battles of Dun-no-ura and Uji.

ANSWER: **Genpei** War [accept **Gempei** War; accept **Genpei** Kassen; accept **Genpei** Gassen]

[10] The end of the Genpei War saw the establishment of the Kamakura kind of this political system, in which a military leader would hold de facto control over Japan.

ANSWER: **Shogunate**

20. After this man's father Cian is killed, he forces the perpetrators to obtain a magic pigskin that heals all wounds, which he then keeps for himself. For 10 points each:

[10] Identify this Irish mythological figure who killed his own grandfather with a sling-stone by shooting him in his evil eye. This man's spear Areadhair had to be kept submerged to stop it from igniting.

ANSWER: **Lugh**

[10] Lugh was the father of this hero of the Ulster cycle, who gained his name after killing a guard-dog in self-defence. This man's fearsome “warp spasm” helped him win his most famous battle.

ANSWER: **Cú Chulainn** (pron. kuh-HOO-lin, but accept approximations)

[10] Along with his warp-spasm, Cú Chulainn's most notable weapon was this spear, which he threw using his toes and which exploded after entering its victim's bodies.

ANSWER: **Gáe Bulg** (accept **Gáe Bulga**, **Gáe Bolg**, or **Gáe Bolga**)