**MKULTRA II: A Fucking Didactic Educational .docx File**

**The Milton Keynes Ultimate Liaison of Trash and Academia**

**Edited by Emma Laslett, Ian Bayley, Hugh Bennett, Tristram Cole, Edmund Dickinson, Jonathan Elliott, David Knapp, David Stainer and Christopher Stern**

**Round 4 - Packet by Butchershop Quartet (Ben Salter, Claire Heywood, Sophie Rudd and Thomas Van)**

Tossups

1. **It's not by Tolkien, but this novel features a pub called the Green Dragon where a doctor plays billiards for money. The "Prelude" and the final paragraphs of this novel contrast Saint-Theresa of Avila to "later-born Theresas" and new Antigones. One character in this novel buys a horse which lames itself before he can sell it, so he fails to pay off his debt to horse-dealer Mr Bambridge. The expensive tastes of that character's vain sister** (\*) Rosamond ruin her idealistic physician husband who dies after being forced to leave town. Another character in this novel aspires to be like Milton's daughters, but becomes frustrated on her honeymoon in Rome while her husband is researching "The Key to all Mythologies". After Edward Casaubon dies in this novel, Will Ladislaw is free to marry Dorothea Brooke. For 10 points, name this 'Study of Provincial Life" by George Eliot.

ANSWER: ***Middlemarch****, A Study of Provincial Life*

2. **One film by this man deals with the ‘Stolen Generations’ through the story of Nullah, a half-Aboriginal boy adopted by Lady Sarah. Another of this man’s films features a musical within a musical, in which one of the ‘characters’ is a magical sitar that only speaks the truth, entitled ‘Spectacular Spectacular’, as well as songs entitled ‘Elephant Love Medley’ and (\*)** ‘Come What May’. Another film by this man stars Claire Danes in one of the title roles, with the other portrayed by the star of his most recent film, in which that actor plays the titular tragic millionaire. For 10 points, name this Australian director, screenwriter and producer, best known for his ‘Red Curtain Trilogy’ comprising *Strictly Ballroom*, *Romeo + Juliet*, and *Moulin Rouge!*

ANSWER: Baz **Luhrmann**

3. **In a short story by this author, Lily and Mort are tricked into buying an illegal ‘Pleasure Bird’. The title character in a novel by this author gets a job as a footman to Percy Buckle and agrees to be mesmerised by the novelist Tobias Oates. This author created the character Hugh Boone who is obsessed with the children’s story “The (\*)** Magic Pudding”, and a protagonist who claims to be 139 years old. This author of *Theft* and *Jack Maggs* wrote a novel based on *The Jerilderie Letter* and another involving a bet between the two title characters to transport a glass church. This creator of Herbert Badgery in *Illywhacker* wrote a novel narrated by a bushranger. For 10 points name this author of *Oscar and Lucinda* and *The True History of the Kelly Gang*.

ANSWER: Peter Philip **Carey**

4. **Setting alpha equal to zero in the Cole–Cole equation reduces it to this scientist’s namesake relaxation model. In one derivation, this scientist approximated an integral over a cube by switching to polar coordinates and integrating over an eighth of a sphere containing the same number of particles. A model named for this man considers the contribution of phonons to a solid’s (\*)** specific heat. That model correctly predicts the temperature-cubed dependence of heat capacity at low temperatures, making it more accurate than the Einstein model. This physicist also names a measure of electrostatic effect that scales with the inverse square root of charge density and defines the screening length for plasmas. For 10 points, name this Dutch-American physicist who gives his name to a unit of electric dipole moment.

ANSWER: Peter (Joseph William) **Debye** [or Petrus (Josephus Wilhelmus) **Debije**; pronounced “duh-BYE”]

5. **Due to the difficulty of its finale, this work’s composer always drank crème de menthe before performing it in public. This work ends with a piano E major chord followed after 3 semiquavers rest by a G sharp, F sharp, E semiquaver run to a unison A quaver. One section of this work begins with a trio between the piano, cello and bassoon, playing the (\*)** Dies Irae melody over pizzicato strings. It’s not by Beethoven, but this piece unusually contains a variation on the main theme before the strings even state that theme. This work inverts the main theme in its *andante cantabile* 18th variation, placing it in D flat major. This work’s main theme was inspired by the 24th caprice of another composer. For 10 points, name this work for piano and orchestra by Sergei Rachmaninoff, named after an Italian violin virtuoso.

ANSWER: ***Rhapsody on a Theme of Paganini***

6. **Bobbie Gentry’s song *Fancy* is set mostly “in a one-room run-down shack on the outskirts of” this city and was later covered by Reba McEntire. The songs *Big Chief*, *Indian Red* and *Iko*[EYE-ko] *Iko* refer to this city’s “Indian” tradition. Louis Jordan wrote an early Rock n Roll song about a party in this city that was broken up by the police in *Saturday Night Fish Fry*. The word (\*)** “twerk” originated from this city’s “Bounce” music, a style of hip-hop with frequent shout-outs to this city’s ‘wards’. The protagonist returns to “wear that ball and chain” in this city, the setting of the only UK Number 1 by The Animals. For 10 points, *Do You Know What it Means to Miss* this city, the setting for *Brown Sugar*, *Lady Marmalade*, *Canal St. Blues* and *The House of the Rising Sun*?

ANSWER: **New Orleans** [accept **Nawlins**]

7. **Two points on the island of Gogland enable the Struve Geodetic Arc to cross this body of water, which is overlooked by the Oranienbaum royal residence. This body of water’s western limit is defined as a line running from the island of Osmussaar to the Hanko Peninsula. A huge oil terminal is situated at Primorsk on this body of water, and six islands in this body of water are home to the fortress of (\*)** Sveaborg. The Saimaa canal enters this body of water at the town of Vyborg and this body of water is fed by the Narva and Neva rivers. A major rebellion against the Bolsheviks occurred at a naval base at Kronstadt on an island in this body of water, on the shores of which is the city of Tallinn. For 10 points, name this arm of the Baltic Sea that separates Estonia from a nation with capital Helsinki.

ANSWER: **Gulf** of **Finland** (or **Suomenlahti** or **Soome laht** or **Finskiy** zaliv or **Finska** viken; accept **Russia**, **Kingiseppsky** District or **Leningrad** Oblast before “this body of water”)

8. **One of this painter’s works features a dog resting its head on the coffin of his master, and another work by this painter features a black-and-white Newfoundland dog that saved almost two dozen people from drowning. This painter of *The Old Shepherd’s Chief Mourner* and *A Distinguished Member of the Humane Society* showed a farrier attending to Jacob Bell’s bay mare in *Shoeing.* A fallen mast and human bones are gnawed over by two (\*)** polar bears in this painter’s *Man Proposes, God Disposes*.This painter is best known for a work showing a stag in front of a Scottish wilderness, and four statues found in Trafalgar Square. For 10 points, name this creator of *Monarch of the Glen* and the lions at the base of Nelson’s Column.

ANSWER: Edwin Henry **Landseer** [do not accept or prompt on “Edwin Landseer Lutyens”]

9. **This man was the subject of a Philip Glass scored documentary by Errol Morris, subtitled *Eleven Lessons from the Life of* [this man]. After World War Two, this man worked for the Ford Motor Company, and eventually became its president, but resigned after accepting a cabinet post originally offered to Robert A Lovett. The Onchocerciasis Control Program to combat river blindness was introduced by the organisation this man headed in 1974. This subject of the documentary (\*)** *The Fog of War* was a proponent of a ‘flexible response’ over the use of nuclear weapons and the author of the Pentagon Papers. FTP, name this President of the World Bank in the 1970s who earlier oversaw the deployment of US troops to Vietnam as Lyndon B Johnson’s Secretary of Defence.

ANSWER: Robert Strange **McNamara**

10. **Derivatives of this molecule can be acetylated with a Lewis acid catalyst in the Nencki reaction. Ketone derivatives of this molecule can be created through the Fries [“freeze”] rearrangement. This compound is condensed with formaldehyde in the polymerisation that forms Bakelite, and it is highly nitrated to form picric acid. Together with acetone, this molecule is produced by direct reaction of a precursor with propene and (\*)** oxygen in the cumene process. This compound exhibits keto-enol tautomerism with the non-aromatic cyclohexadienone. This compound has a pKa around 10, making it more acidic than aliphatic alcohols because its conjugate base is stabilised by delocalisation to an aromatic ring. For 10 points, name this benzene derivative with a hydroxy group.

ANSWER: **phenol** (or **carbolic** acid; accept **hydroxybenzene** until “benzene”; prompt on “benzene” until “Fries”; do not accept or prompt on “phenyl” or “carbonic acid”)

11. **This man was the most popular biblical subject depicted in Early Christian art, in which the most common representation of him shows him reclining under a gourd-vine. This man is sometimes called Dhul-Nun in Islam, and is the only one of the Twelve Minor Prophets to be named in the Qur’an. This man was the son of Amittai, and according to his namesake book in the Old Testament, the king and citizens of (\*)** Nineveh put on sackcloth in response to this man’s prophecy that God would destroy the city. For 10 points, name this prophet who, having disobeyed God’s command to travel to Nineveh, was thrown into the sea to calm the resultant storm, and then famously swallowed by a huge fish.

ANSWER: **Jonah** [accept **Dhul-Nun** until said]

12. **One ruler of this name, with the epithet ‘Philadelphus’, married his sister Arsinoe II, who was also the widow of his former father-in-law, Lysimachus. That man’s father, also of this name and with the epithet ‘Soter’, stole the body of Alexander the Great while it was en route back to Macedonia and instead had it buried in Alexandria, which he also made the new capital of (\*)** Egypt. Pierre-François Bouchard discovered a three-language stone stele with a decree issued on behalf of another man of this name. For 10 points, give the name shared by every king of the namesake dynasty which ruled Egypt from the division of Alexander’s empire in 323 BC to the death of its final ruler Cleopatra VII in 30 BC.

ANSWER: **Ptolemy**

13. **In Incan mythology the husband of one of these figures starved to death, while her son was cut into pieces by Pacha Kamaq, with each piece of the corpse becoming a fruit or vegetable plant. Another of these figures became the consort of the archangel Samael after leaving her first husband, and C.S. Lewis identified her as the ancestor of the White Witch Jadis. In Norse mythology this figure was formed from one of two tree trunks found on a beach, and was called (\*)** Embla, while another of these figures was given to Epimetheus as punishment for his brother’s theft of the secret of fire. For 10 points, name these mythological figures, the Christian example of which was formed from her husband’s rib, and was named Eve.

ANSWER: **First women** [or obvious equivalents; prompt on ‘first people/humans’ or ‘protoplasts’; prompt on women; do not accept ‘first men’]

14. **The printer language PostScript is built around this structure as an execution model, while an ancestor based on two instances of this structure uses the instructions R> [“from R”] and >R [“to R”] to move data between those two instances as well as instructions such as ROT and NIP for modifying the data instance alone. That language in which the instructions are called words is FORTH. In the compiled object code of imperative programming languages, this structure is manipulated, as it holds within namesake (\*)** frames the return address linking back to the predecessor of each procedure. For 10 points, name this structure that can also be used to evaluate arithmetic expressions written in reverse Polish notation, a last-in-first-out abstract data type with operations push and pop.

ANSWER: **stack**

15. **One character in this work has an interview at a post-feminist women’s magazine entitled *Flaps*, and later stages a performance art piece dressed as a rabbit. Another character in this sitcom was thrown out of the TA for stealing a tank and trying to invade Paris, while his best friend is fired from his job for yelling at a young customer who wants to buy a Jar Jar Binks doll. In another episode, those two characters enter (\*)** Robot Wars with a machine named ‘Private Iron’. In another episode, the two main characters have an imaginary gunfight with a gang of youths over a bag of oregano. For 10 points, name this 1999-2001 British sitcom about twenty-somethings Tim and Daisy, written by and starring Jessica Hynes and Simon Pegg.

ANSWER: ***Spaced***

16. **A story about this government's last leader claims he once escaped a building in a car with a US flag. This government experienced a series of armed demonstrations known as the July Days, and a failed coup against it was conducted by (\*)** Lavr Kornilov. It was denounced in a series of ten directives given by its successor’s head of state known as the April theses. This polity was led first by Georgy Lvov and later by Alexander Kerensky, and it came into being after the February Revolution. For 10 points, name this government established in March 1917 after the overthrow of Tsar Nicholas II, which was itself replaced eight months later by the Bolsheviks after the October Revolution.

ANSWER: **Provisional Government** of Russia [accept Russian **Provisional Government** or anything mentioning **Russian Republic**; accept **Kerensky** Government before end of first line; prompt on ‘Russia’; do not accept or prompt on ‘Tsarist Russia’, ‘Russian Federation’ or ‘Soviet Union/USSR’]

17. *[Note to moderator: Lp and Rn are pronounced “El-Pee” and “Ar-Enn” respectively – i.e. just read the letters]*

**With a Frenchman, this mathematician names a quantity that measures the change in how many boxes are required to cover a fractal as the boxes decrease in size; that is his namesake dimension. This man proved the hyperplane separation theorem, and also names the analogue of the triangle inequality for Lp spaces. This mathematician proved a theorem that gives conditions for a (\*)** convex subset of Rn to contain a non-zero lattice point; that theorem forms the cornerstone of the study of the “geometry of numbers” he pioneered. The isometries of the structure for which this mathematician may be best known make up the Poincaré group. For 10 points, which German mathematician’s namesake 4-dimensional “spacetime” provides a natural setting for special relativity?

ANSWER: Hermann **Minkowski** [pronounced “min-KOV-skee”]

18. **One character created by this author is the shy teenager Reenie, who is forced by her mother to go to a party with Sammy. In a play by this author, the art student Marie sleeps with her fiancé, a javelin thrower called Turk, whilst boarding with the alcoholic chiropractor Doc Delaney. That play takes its title from the missing (\*)** dog of Delaney’s wife Lola. Once scene by this author of *The Dark at the Top of the Stairs,* sees a former philosophy professor who likes young girls re-enact the balcony scene from Romeo and Juliet with a high school student while waiting out a snowstorm in a diner. This author wrote a play in which several characters including Madge and Hal skip the title Labor Day celebration in order to have sex. For 10 points name this author of *Bus Stop* and *Picnic*.

ANSWER: William Motter **Inge**

19. **This man wrote *Compendium of Music* for the physicist Isaac Beeckman and refrained from publishing a work supporting the Copernican model of the universe, *The World*, after the condemnation of Galileo. One work by this man was intended as an introduction to the works *Dioptrics*, *Meteorology* and *Geometry*, while Antoine Arnauld identified a (\*)** circularity of reasoning in another work in which this man examined a piece of melting wax and used the idea of an "evil genius" to argue that metaphysics must stem from self-verifying truths. *Discourse on Method* and *Meditations on First Philosophy* are works by which French philosopher, who for ten points gives his name to mind-body dualism and wrote "I think, therefore I am"?

ANSWER: René **Descartes** (accept Renatus **Cartesius**)

20. **One man with this name performed piano duets with a dog puppet on his eponymous show, giving Jim Henson his first national exposure. Another man with this name is given men’s magazines by Sissy, and is the biological son of Joanne Qualley and Mona, who claims he is the son of his namesake. That work, set in a Woolworth’s on the twentieth anniversary of the death of the actor who bears this name, is titled for a request for his supposed son to (\*)** “*Come Back to the 5 & Dime*”. One man with this name plays the owner of Little Reata, Jett Rink, in his last film, *Giant*. He is most famous, however, for a film in which Plato is killed at Griffith Observatory, and he wins a fatal game of chicken. For 10 points, name this *Rebel Without a Cause*.

ANSWER: **James Dean** [Accept **Jimmy Dean**, prompt on partial answers]

Bonuses

1. Does God exist? Don't answer that. Instead, answer these questions about the search for proof of His existence, for 10 points each.

[10] St Anselm of Canterbury was the first man to put forward what type of argument for the existence of God, based on the fact that not existing would make God less than perfect?

ANSWER: **Ontological** argument

[10] This mathematician used modal logic in an effort to prove the ontological argument, although his efforts were not published until after his 1978 death. Criticisms of his efforts have been directed at the axioms assumed by the proof.

ANSWER: Kurt **Gödel**

[10] Another attempt at a modal ontological argument used the concepts of "maximal excellence" and "maximal greatness" and was made by this author of *God and Other Minds* and *The Nature of Necessity.*

ANSWER: Alvin **Plantinga**

2. *[Note to moderator – be sure to heavily emphasise the quote marks in the first two lines]*

On the 23rd of June, we “voted Leave and took back control”. For 10 points each, answer these questions about what some are calling Britain’s “Independence Day”.

[10] The UK’s leaving of the European Union was given this catchy name, which was derived from discussions of a less voluntary Greek change of currency.

ANSWER: **Brexit** [Do not accept or prompt on anything like “Britain leaving the EU”, obviously]

[10] A major player in the referendum was UKIP, then headed by the professionally controversial Nigel Farage. UKIP began as the Anti-Federalist League, founded by this LSE Professor of International History.

ANSWER: Alan **Sked**

[10] This North-Eastern town was a crucial bellwether in the early stages of the referendum results. 61% of voters believed in Britain, signalling the upset to come.

ANSWER: **Sunderland**

3. The name of a unitary authority containing Rochester, Chatham and Gillingham was derived from this river. For 10 points each:

[10] Name this Kentish river that enters the Thames Estuary at Sheerness.

ANSWER: River **Medway**

[10] The Medway separates Sheerness and the Isle of Sheppey from this easternmost part of the Hoo Peninsula. No longer an island, this area is home to London Thamesport, a container port built on the site of BP’s former Kent Oil Refinery.

ANSWER: Isle of **Grain**

[10] Much further upstream, the Medway feeds Weir Wood Reservoir at the northern edge of this area of open heathland and former mediaeval hunting forest associated with A. A. Milne..

ANSWER: **Ashdown** Forest

4. The OZI rule predicts that excited states containing this particle and its corresponding antiparticle will decay into three pions if they are lighter than charged D mesons. For 10 points each:

[10] Name this third heaviest quark, which forms part of the second generation of matter along with the strange quark. Its existence was first predicted by the GIM mechanism.

ANSWER: **Charm** quark

[10] The charm quark was initially discovered bound to a charm antiquark as part of this meson, which was simultaneously discovered at SLAC and Brookhaven.

ANSWER: **J/psi** meson [or psion; prompt on “charmonium”]

[10] One of the proposers of the GIM mechanism was this American, who also proposed the first Grand Unified Theory along with Howard Georgi. With Abdus Salam and Steven Weinberg, this physicist was awarded the Nobel prize for uniting electromagnetism and the weak interaction.

ANSWER: Sheldon Lee **Glashow**

5. Esperanto estas unu el tiuj aferoj. [Esperahnto estahs oonoo el teeu ahferoy]. For 10 points each:

[10] Name these constructs, which have vocabulary and grammar that are specially invented, rather than developing organically. Láadan is a feminist one of these that includes numerous particles stating the trustworthiness of a phrase, including one used when the speaker saw something in a dream.

ANSWER: **Conlang**s [accept **Constructed**, **Planned**, **Invented language** or clear equivalents, prompt on ‘Fictional language’]

[10] This conlang with a vocabulary of 120 root words is inspired by Taoist philosophy and designed to encourage positive thinking according to the Sapir-Whorf hypothesis.

ANSWER: **Toki Pona**

[10] This conlang is the source of the word “silflay”, meaning “rabbits eating above ground” used in the Midwest. This language was deliberately designed by Richard Adams to sound ‘fluffy’.

ANSWER: **Lapine**

6. The most common disorder of these organelles is X-linked adrenoleukodystrophy. For 10 points each:

[10] Name these organelles, which break down long fatty acids. This organelle’s namesake compound has formula H2O2.

ANSWER: **peroxisome**s

[10] Peroxisomes contain this common enzyme, which converts hydrogen peroxide to water and oxygen. One of the fastest known enzymes, it is found in particularly high concentrations in the liver.

ANSWER: **catalase**

[10] This disease, named after a Swiss-American scientist, is caused by reduced numbers of peroxisomes, resulting in accumulation of very long fatty acid chains. It is caused by a mutation on one of the *PEX* genes, and is clinically similar to infantile Refsum disease.

ANSWER: **Zellweger** syndrome [or **cerebrohepatorenal** syndrome]

7. This country’s civil war was put on hold in 1937 due to an invasion by Japan. For 10 points each:

[10] Name this country, where a civil war was fought between the Chiang Kai-Shek-led Kuomintang and the Mao Zedong-led Communist Party.

ANSWER: **China**

[10] Chiang Kai-Shek’s reluctance to suspend the civil war to fight the Japanese was ended by this 1936 incident. It saw a disgruntled Kuomintang general kidnap Chiang Kai-Shek and hand him over to the communists, who only released him once the KMT had agreed to a truce.

ANSWER: **Xi’an**Incident

[10] This US general headed a namesake mission that attempted to put an end to the war once hostilities resumed after World War II and create a unified CCP and KMT government. He would go on to serve as Truman’s Secretary of State and Secretary of Defense.

ANSWER: George **Marshall**

8. You thought Pokémon was just a bunch of cute characters designed to flog overpriced tat to kids? WRONG. Answer these questions on their political implications for 10 points each:

[10] The release of Pokémon GO has led the Westboro Baptist Church to adopt this Pokémon in the fight against a Clefairy named “LoveIsLove”. The hate church modified this Pokémon’s famously soporific song to say “repent or perish”.

ANSWER: **Jigglypuff**

[10] Nintendo were forced to redesign the Ice/Psychic-type Pokémon Jynx after numerous accusations that it was a caricature of this group of people. It was probably actually based on a Japanese fashion trend or a Nordic folk tale.

ANSWER: **Black** people [accept clear-knowledge equivalents]

[10] Accusations of Satanism in Pokémon are rife, including an allegation that the message “I love you Satan” is hidden in the Pokérap through this technique. This technique was also allegedly used to insert “here’s to my sweet Satan” into *Stairway to Heaven*.

ANSWER: **Backmasking** [or **playing it backwards**, or any equivalent mentioning reversing]

9. For ten points each, answer these bonuses on David Croft sitcoms that aren’t *Dad’s Army*:

[10] Set in 2050, this dreadful sitcom, developed by Croft with Jeremy Lloyd, starred Mollie Sugden as a housewife who is accidentally launched into space aboard the *Britannia Seven*, along with a heavily disguised Ian Lavender.

ANSWER: **Come Back Mrs Noah**

[10] This significantly better sitcom, written by Croft and Jimmy Perry, was set in a “Maplins” holiday camp in the late ‘50s. Its titular refrain was spoken by Gladys Pugh, and was typically met with a “Ho-de-Ho!” from the guests.

ANSWER: ***Hi-de-Hi!***

[10] After playing Peggy Ollerenshaw in *Hi-de-Hi!*, this woman sang the theme tune to another Croft sitcom, *Oh, Doctor Beeching!*, in which she starred as Ethel Schumann.

ANSWER: (Susan Georgina) “Su” **Pollard**

10. Anish Kapoor used this space for his installation *Marsyas*, consisting of three steel rings linked with a red PVC membrane to represent a flayed satyr. For 10 points each:

[10] Name this installation space in which Olafur Eliasson placed a giant sun, and which, in 2015, was filled by Abraham Cruzvillegas with soil from local parks.

ANSWER: the **Turbine Hall** at Tate Modern (prompt on “Tate Modern”)

[10] This French-American artist included spiral staircases in *I Do, I Undo, I Redo,* the Turbine Hall’s first installation. This artist also included a 30ft high steel spider, titled *Maman*, alongside the main installation.

ANSWER: Louise (Joséphine) **Bourgeois**

[10] In 2010, this Chinese artist filled the Turbine Hall with some 100 million hand-painted porcelain *Sunflower Seeds*.

ANSWER: **Ai** Weiwei

11. In A. S. Byatt's *Possession*, the poetess Christabel Lamotte is based on this writer. For 10 points each:

[10] Name this author of the Petrarchan sonnet *Remember*, and *In the bleak midwinter.*

ANSWER: **C**hristina **Rossetti** (prompt on Rossetti)

[10] Although Rossetti claimed this poem about two sisters was intended for children, it seems unlikely given passages like "Did you miss me? / Come and kiss me. / Never mind my bruises, / Hug me, kiss me, suck my juices."

ANSWER: ***Goblin Market***

[10] Name either of the two sisters in *Goblin Market*.

ANSWER: **Lizzie** or **Laura**

12. The value of this number is known to almost 120 billion digits, yet it is not known whether or not it is rational. For 10 points each:

[10] Identify this number, defined as the limit of the difference between the natural logarithm and the partial sum of the harmonic series.

ANSWER: **Euler–Mascheroni** constant [accept **gamma** or **γ**; accept **Euler’s constant** but do NOT accept or prompt on “Euler’s number” or “e”]

[10] The Euler–Mascheroni constant is the first of the Stieltjes constants, which are the coefficients of the Laurent expansion of this man’s namesake “zeta function”. This mathematician’s namesake hypothesis — that the zeroes of his zeta function all have real part one-half — is still an open problem.

ANSWER: Bernhard **Riemann** [or **Riemann** zeta function; or **Riemann** hypothesis]

[10] The Euler–Mascheroni constant also appears in the value of this man’s namesake transform applied to the logarithm function. This mathematician studied spherical harmonics as solutions to his namesake equation, which sets del-squared of f equal to zero.

ANSWER: Pierre-Simon **Laplace** [or Pierre-Simon, marquis de **Laplace**]

13. For 10 points each, answer some questions on Sweden’s involvement in the Thirty Years War.

[10] Also known as the “Lion of the North”, this Swedish king fought on behalf of the Protestants in the Thirty Years War. He died while fighting a Wallenstein-led Catholic army at the Battle of Lützen.

ANSWER: **Gustavus Adolphus** [or **Gustav** II **Adolf**; prompt on ‘Gustavus’]

[10] This man assumed command of Swedish forces following the death of Gustavus Adolphus. He was chancellor to both Gustavus Adolphus and his successor, Christina.

ANSWER:Axel **Oxenstierna**

[10] One of Gustavus Adolphus’ victories came at this battle, where he decisively defeated the Catholic League soldiers of Count Tully, who eventually died from wounds sustained at this battle. It was the second time the two men had fought, after the earlier battle of Breitenfeld.

ANSWER: Battle of **Rain** [or Battle of the River **Lech**]

14. If this man were writing this quiz, he’d promise to make the greatest and most innovative quiz ever, only for it to turn out underwhelming and missing half the promised questions. For 10 points each:

[10] Name this man, the legendarily unreliable video game developer behind such games as *Fable*. His current company, 22Cans, created *Godus* and *Curiosity-What’s Inside the Cube*.

*ANSWER:* Peter Douglas **Molyneux**

[10] Molyneux had previously worked for this Guildford-based game studio, which made the *Fable* series of games as well as *Black & White*. Acquired by Microsoft in 2006, it was announced in March of this year that they would be closing down.

*ANSWER:* **Lionhead** Studios

[10] Peter Molyneux also worked at Bullfrog, where he designed this 1989 game for the Amiga that spawned two sequels, *Trials of the Olympian Gods* and *The Beginning*. It is credited with being the first ‘god’ game, and Molyneux’s later work *Godus* is a spiritual successor.

*ANSWER:* ***Populous***

15. This operation attempted to quell unrest in Nairobi. For 10 points each:

[10] Name this 1954 military campaign led by George Erskine that resulted in some 16,000 suspected rebels being rounded up and put in the Langata Camp.

ANSWER: Operation **Anvil**

[10] Operation Anvil was in response to this Kikuyu majority rebellion in British-controlled Kenya in the 1950s.

ANSWER: **MauMau** Uprising

[10] The British government received criticism for its handling of the uprising, as seen in this March 1959 event where 11 prisoners were found to have been beaten to death by guards at a namesake detention camp.

ANSWER: **Hola** Massacre

16. This character impulsively buys all the Egyptian cotton in existence, then struggles to sell it. For 10 points each:

[10] Name this war profiteering mess officer on the island of Pianosa who arranges to bomb his own squadron after being paid to do so by the Germans.

ANSWER:**Milo** **Minderbinder** [Accept either]

[10] Milo appears in this anti-war novel set during World War II that features such characters as Major Major Major Major and Yossarian.

ANSWER: ***Catch-22***

[10] In *Catch-22,* ex-PFC Wintergreen starts a confusing chain of events when he rings General Peckem, says the name of this poet, and then hangs up.

ANSWER: **T. S. Eliot**

17. For 10 points each, answer some bonuses on the phallus in Roman religion.

[10] The phallus was a potent and ubiquitous symbol in Ancient Roman culture, and was a popular motif on everyday objects. This is because the phallus was believed to have had this quality, the proper term for which derives from the Greek for “turn away”.

ANSWER: **Apotropaic** [accept ‘**warding off/turning away evi**l’ or reasonable equivalents; prompt on ‘lucky’/’good luck’]

[10] This fertility god, characterised by his permanently erect and oversized phallus, was frequently invoked as a guardian figure. A famous fresco which depicts this god weighing his phallus against a large bag of coins was found in Pompeii.

ANSWER: **Priapus**

[10] These priestesses were responsible for guarding a sacred phallus thought to be essential to the security of the Roman state. They are perhaps more famous for having guarded the eternal fire of Rome, and for their vows of chastity punishable by immolation.

ANSWER: **Vestal Virgins** [accept **Vestals**, or the Latin ***Vestales***]

18. Answer some questions on composers who have been inspired by Greco-Roman literature, For Ten Points each:

[10] Carl Orff set poems of Catullus to music in his *Catulli Carmina*, which forms part of his *Trionfi* along with his *Trionfo di Afrodite* and this more famous cantata, which opens with the choir singing “O Fortuna”.

ANSWER: ***Carmina Burana***

[10] Euripides’ play *Medea* inspired this French composer’s opera *Médée*. This member of Les Six also composed the music to a surrealist ballet based upon Brazilian themes, his *Le bœuf sur le toit.*

ANSWER: Darius **Milhaud** [pronounced a bit like MEE-yo, but accept reasonable phonetic pronunciations]

[10] Ravel’s symphonie choreographique *Daphnis et Chloé* was inspired by a romance by Longus. At the end of its first act, pirates led by this character kidnap Chloé before forcing her to dance for them.

ANSWER: **Bryaxis**

19. The lost satyr play Proteus originally followed these plays, which are the only surviving example of an Ancient Greek theatre trilogy. For 10 points each:

[10] Name this trilogy about the family of Agamemnon by Aeschylus.

ANSWER: *The* ***Oresteia***

[10] This third play in the trilogy is named after the Furies who pursue Orestes for the murder of his mother.

ANSWER: *The* ***Eumenides*** (Accept ***The Kindly Ones***)

[10] In the second play, *The Libation Bearers*, Electra recognises this thing that Orestes has placed on Agamemnon’s tomb.

ANSWER: A lock of **hair** (accept logical equivalents)

20. In 2015 this man featured as the star of an internet parody film trailer titled *50 Shades of…* this man. For 10 points each:

[10] Name this man, one of Hollywood’s most prolific actors, whose filmography features many films by the Coen brothers, and who has won several awards for his role as Nucky Thompson in *Boardwalk Empire*.

ANSWER: Steve **Buscemi**

[10] Buscemi appears in this 2003 fantasy drama as fictional poet Norther Winslow, who robs a bank with the unwitting aid of protagonist Edward Bloom, only to find that there is no money left to steal.

ANSWER: ***Big Fish***

[10] Buscemi featured as a jewel thief in crime thriller *Reservoir Dogs*, in which he is given this code name, prompting complaint.

ANSWER: Mr. **Pink**