

MKULTRA 3: Asking the Super-Important Questions

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Packet by Edinburgh

Tossups

1. **A cottage in Staten Island, where this person lived for two years, has since been designated a museum named jointly for this person and the candlemaker who employed him. The man led a troop of 4,000 of his compatriots under a black flag with an erupting volcano during the Great War against Manuel Oribe as they aided in the defence of (*) Montevideo.** This man led a small force to victory with an uphill bayonet charge at Calatafimi shortly before declaring himself dictator of Sicily. At Teano, this man greeted Victor Emmanuel II as King of Italy. For 10 points, name this Italian general who led the Expedition of the Thousand.

ANSWER: Giuseppe Garibaldi <DJ, History>

2. **In one novel by this author, a six-year-old accidentally fractures his baby sister's skull with a BB gun before attempting to run away from home. In that novel by this author, a socialist sees Ezekiel 39:18 written in red chalk on a wall. In one novel by this author, a woman previously married for only ten days takes in a hunchbacked dwarf, before her former husband Marvin Macy teams up with the hunchback Lymon to rob her and the (*) title establishment.** In this author's first novel, the news of Spiro Antonapoulos's death causes his deaf-mute friend John Singer to commit suicide. For 10 points, name this Southern Gothic author of *The Ballad of the Sad Café* and *The Heart is a Lonely Hunter*.

ANSWER: Carson McCullers <Edinburgh/EWL, Literature>

3. **In financial economics, this adjective describes an 'operation' in which government bonds are bought and sold between central and commercial banks. It's not "low", but in phonetics, the raising of the first formant frequency (F1) is indicative of a class of vowels that can be described by this adjective. A 'society' with this adjective is defined by (*) Karl Popper as one which "sets free the critical powers of man" and where "individuals are confronted with personal decisions", while in linguistics it denotes the state of a vocal tract in which air can flow out freely and unimpeded.** For 10 points, what is this adjective, which describes a legal verdict stating that a cause of death could not be determined?

ANSWER: open <Edinburgh, Social Science>

4. **The discussion at this event includes a classic problem of circular combinatorics and the differing semantic values of sentences with inverted structure. One attendee at this event tells a story about three sisters who lived at the bottom of a well and ate treacle. It is generally agreed that this event had "the best (*) butter" although it has no wine, despite wine being offered to an attendee who complains about rudeness and incivility after finding "plenty of room" at the table. A riddle with no answer posed during this event is "why is a raven like a writing desk?"** For 10 points, name this get-together attended by the Dormouse, the March Hare, and Alice.

ANSWER: The Mad Hatter's Tea-Party in Lewis Carroll's *Alice in Wonderland* [or A Mad Tea-Party; prompt on Tea-Party] <Edinburgh, Miscellaneous>

5. **A major civilisation which developed in the area around of this body of water is the Sao civilisation. Reed boats known as kadeï are traditionally used on this body of water. The long term drying of this lake created the Bodélé Depression to its north. A proposed scheme to replenish this lake involves the construction of a canal from the (*) Ubangi River.** Over 90% of this lake's water is provided by the Chari River and it once drained to the Atlantic Ocean via the Benue and Niger rivers. Now

endorheic, for 10 points, name this large, shallow lake of the south Sahara, which shares its name with a country with capital N'Djamena.

ANSWER: Lake **Chad** or Lac **Tchad** <Edinburgh, Geography>

6. **The Chinese Immortal Zhang Guolao had a magic one of these animals that he could fold up and place in his pocket. The Hindu goddess Kalaratri is usually depicted riding one of these animals. Along with dogs, these animals are said to nullify a prayer in Islam if they pass in front of a praying man, but the prophet Muhammad rode one of these animals, named (*) Ya'fur.** The mythological creature known as an "onocentaur" was part human and part this animal. In addition to having a "golden touch", King Midas was said to have his ears turned into the ears of this animal. For 10 points, which animal is associated with Palm Sunday, celebrating the day Jesus rode into Jerusalem on one of them?

ANSWER: **donkey** [or **ass**; or **mule**] <EBL, Religion>

7. **Variations in this quantity are responsible for the hot chocolate effect, and one device used to measure this quantity is Kundt's tube. Project Mogul used a minimum in this quantity to detect Soviet nuclear tests, based on research into a minimum in this quantity in the deep ocean SOFAR channel. Laplace added the adiabatic index to (*) Newton's equation for this quantity, which initially calculated this quantity as the square root of the ratio of pressure and density. Shock waves are produced when this quantity is exceeded. For 10 points, name this quantity roughly equal to 340 metres per second in dry air, also equal to Mach 1.**

ANSWER: **speed of sound** [or equivalents; accept **Mach 1** before mentioned] <EWL, Physics>

8. **In 1969, Mary Moultrie led a strike of hospital workers in this city. An estimated 40% of all the slaves transported from Africa to mainland North America were landed at Sullivan's Island, outside of this city. Benjamin Lincoln surrendered this city to Henry Clinton in the largest American surrender of the Revolutionary war. In the harbour of this city, the HL Hunley became the first ever submarine to sink a warship in 1864. Three years earlier, (*) a mortar fired at a fortification in that same harbour began the First Battle of Fort Sumter and with it the American Civil War. In 2015 this city's Emanuel Methodist Episcopal Church was attacked by Dylann Roof. For 10 points, name this oldest city in South Carolina, founded in 1670 and named after the then English monarch.**

ANSWER: **Charleston**, South Carolina <DJ, History>

9. **In one film set in this city, Channing Tatum's character is sentenced to 200 hours community service after vandalising a school, during which he forms a romantic relationship with a student of that school through the medium of dance. In a television show set in this city, a homeless man notifies police officers who is a drug dealer by placing a (*) red hat on their heads. That television show set in this city has a memorable scene in which two detectives investigate a crime scene while only saying the word "fuck". The second season of a show set in this city focused on the city port industry. Stringer Bell and Jimmy McNulty are fictional residents of, for 10 points, which city, the setting for *Step Up* and *The Wire*?**

ANSWER: **Baltimore** <EWL, Trash>

10. **In one religious painting by an artist with this surname, six baby-like red cherubim appear in the sky. Another painter with this surname painted a *Seated Scribe* working on Arabic calligraphy while working at the Ottoman court. Giraffes and camels appear in front of a temple modelled on Mamluk architecture as well as a basilica with many (*) Romanesque arches in a collaboration by two painters with this surname of a saint *Preaching in Alexandria*. A series showing the procession of the True Cross passing through a city and a portrait of *Doge Leonardo Loredan* are works by painters with, for 10 points, what surname shared by the Venetian painters Gentile ["jen-TEE-lay"] and Giovanni?**

ANSWER: **Bellini** <Edinburgh, Visual Fine Arts>

11. **One version of this philosophical position labels the entire universe ‘the blobject’, claiming that while statements about its parts can be true, they do not refer to anything in the world. Idealism and materialism are forms of this position, but in the ‘neutral’ variety once held by Bertrand Russell, the intrinsic nature of the universe is (*) neither mental nor physical.** Donald Davidson argued for a non-reductive physicalism about the mind, and an ‘anomalous’ form of this position. For 10 points, what is this broad doctrine, attributable to Plato, Spinoza and Hegel and opposed to dualism and pluralism, which claims that there is only one of a given entity or kind?

ANSWER: **Monism** <Edinburgh, Philosophy>

12. [description acceptable] **The Mōko Shūrai Ekotoba are a pair of illustrated scrolls illustrating these events and were commissioned by one participant, Takezaki Suenaga. One of these actions was initiated by a letter written by king Chungyeol. The first of these events is also known as the Battle of Bun’ei, while the second, seven years later, is referred to as the Kōan Campaign. Both culminated at (*) Hakata Bay, which is now part of the city of Fukuoka.** For ten points, name these failed attacks, ordered in 1274 and 1281 by Kublai Khan and turned back in part due to two conveniently-timed typhoons that became known as ‘divine winds’, or kamikaze?

ANSWER: **Mongol** (or **Yuan**) **invasions of Japan** [accept **Battles of Hakata Bay** before mentioned; prompt on **Invasions of Japan**] <DJ, History>

13. **In the final of the 2007 Masters, this man attempted to concede the match at 9-3 down, thinking it was best-of-17. This man delivered a short, profanity-heavy press conference after losing to amateur player Adam Duffy in the first round of the 2015 UK Championship. Judd Trump reached the final of the (*) 2011 World Snooker Championship thanks to a 17-15 victory over this man.** This man burst onto the scene by defeating Steve Davis to win the 2005 UK Championship and, in 2016, this man became the first player from his country to reach the final of the World Snooker Championship. For ten points, name this most successful Chinese snooker player.

ANSWER: **Ding** Junhui <DK, Trash>

14. **The first half of an opera by Leos Janacek sees the drunken Mr. Brouček visit this location in a dream. In an opera by Joseph Haydn, the scientist Eccletrico tricks the bumbling Buonafende into thinking he has been transported to this location. A water sprite sings a famous “Song to [this]” in the Dvořák opera (*) *Rusalka*.** This object is also the subject of the third movement in Debussy’s *Suite Bergamasque*, titled for a Verlaine poem. The nickname of Beethoven’s *Piano Sonata No. 14* was inspired by the light reflecting from this object onto Lake Lucerne. For 10 points, identify this object which is the subject of the composition *Clair de Lune*.

ANSWER: The **Moon** <Edinburgh, Auditory Fine Arts>

15. **Derivatives of this compound are required for the formation of crosslinks in collagen, and fungi synthesise this compound in the alpha-amino-adip-ate pathway. Along with meth-io-nine and threo-nine, the first step of this amino acid’s biosynthesis in eukaryotes is the phos-phoryl-ation of aspartate. De-carboxyl-ation of this amino acid gives (*) cadaverine.** Along with arginine, this amino acid is more abundant in histones as the flexibility of its side chain facilitates DNA binding. For 10 points, name this basic amino acid with a side chain terminating in an epsilon-amino group, symbolised K.

ANSWER: **lysine** [or **Lys**, prompt on “**K**” before read] <Edinburgh/EWL, Biology>

16. **The founder of one organisation with this name featured “Defeating Electromagnetic Door Locks” in his book club. This term names a maritime route in an infrastructure strategy proposed by Xi Jinping. In the plural, this term was subtitled *A New History of the World* in a work by Peter Frankopan, and it names (*) Yo-Yo Ma’s ensemble to promote cross-cultural artistic collaboration.** Ross Ulbricht called himself Dread Pirate Roberts when running a Tor hidden service with this name that

traded in illegal drugs before being shut down in 2013. Bukhara and Samarkand were cities on, for 10 points, what ancient network of trade routes with China?

ANSWER: **Silk Road** [accept 21st Century Maritime **Silk Route** Economic Belt or answers containing **sīchóu zhī lù**; accept *The **Silk Roads**: A New History of the World*] <Edinburgh, Miscellaneous>

17. **Psychoanalysts Martin Wanhg and A.B. Feldman suggested that this character is motivated by homosexuality, whilst Coleridge described this character as “motiveless malignity”. This character gets someone drunk by saying how Danes, Germans and Hollanders do not drink as much as Englishmen. In the source text for this character, he is simply known as (*) “The Ensign”. This character answers “you are a senator” when he is called a villain, and uses the phrases “green-eyed monster” and “beast with two backs”, the latter whilst telling Brabantio of his daughter’s relationship with a Moor. For 10 points, which jealous standard bearer schemes against Othello?**

ANSWER: **Iago** <PA, Literature>

18. **An Iridonian artifact named the zhaboka is the precursor to one type of these items. Cortosis weave is immune to the effects of these items, and the Caves of Ilum contain materials needed to power these items. Makashi and Soresu are forms adopted when using these items, and the shoto is a shortened form of this item. Lumiya used a variant of these items that resembled a (*) whip. One character describes one of these items as “an elegant weapon, for a more civilised age”. A crossguard variant of these items belongs to Kylo Ren, and a double one of these items was used by Darth Maul. For 10 points, name this fictional plasma blade used by the Sith and the Jedi.**

ANSWER: **Lightsabers** <EWL, Trash>

19. **One sequence of poems by this writer ends “To the silent earth, say: I flow / To the rapid water say: I am.” This poet wrote “Subrisio Saltat” to describe a figure’s smile in one poem, referencing a painting by Pablo Picasso. This author of “Let This Darkness Be a Belltower” wrote “It seems to him there are a thousand bars; and behind the bars, no world” in a poem about a (*) caged animal. This author described a statue with “a legendary head with ripened fruit” in a poem which concludes “You must change your life”. A sequence of ten poems by this author of “The Panther” begins “Who, if I cried out, would hear me among the angelic orders?” For 10 points, name this Czech-Austrian poet of *Sonnets to Orpheus* and the *Duino Elegies*.**

ANSWER: Rainer Maria **Rilke** <Edinburgh/EWL, Literature>

20. **Alex Gurevich’s theory of lightning initiation proposes that a “relativistic runaway electron avalanche” is caused by one of these particles. One method for detecting these particles dissolves polycarbonate sheets exposed to them in sodium hydroxide solution. One of these particles detected by the Fly’s Eye was dubbed the Oh-My-God particle for its high Lorentz factor. Three Wulf electrometers on a balloon flight during a total eclipse were used to first detect these particles by Victor Hess. (*) HZE ions form about 1% of these particles, whose theoretical maximum energy is the GZK limit. For 10 points, name these showers of high-energy particles that impact the Earth’s atmosphere.**

ANSWER: **cosmic rays** [or any type of energy **cosmic ray**, such as ultra-high energy, etc.; prompt on “**protons**”; prompt on “**neutrinos**”; do not accept galactic or extragalactic cosmic rays] <EWL, Other Science>

Bonuses

1. When this physicist's wife left him for a chemist, he remarked "Had she taken a bullfighter I would have understood, but... *a chemist?*" For 10 points each:

[10] Name this physicist, who stated that no two fermions in a quantum system may have the same values of the quantum numbers in his namesake "exclusion principle".

ANSWER: Wolfgang **Pauli**

[10] The Pauli exclusion principle gives rise to this short-range interaction. A "super" variety of this interaction is described by the Goodenough-Kanamori rules, which govern how this interaction causes magnetism in oxides.

ANSWER: **exchange** interaction

[10] Pauli's exclusion principle causes this phenomenon in stars, which prevents white dwarfs from collapsing to neutron stars below the Chandrasekhar limit, and neutron stars from collapsing to black holes.

ANSWER: **degeneracy pressure** [be nice and prompt on "**pressure**"; accept derivatives such as "electron **degeneracy pressure**" and "neutron **degeneracy pressure**"] <EWL, Physics>

2. For 10 points each, answer some questions about music of the Soviet Union:

[10] Poems by both Yevgeny Yevtushenko and Robert Burns are set to music in the *Babi Yar* symphony, the 13th symphony by this Soviet composer, who dedicated his 7th symphony to the city of Leningrad.

ANSWER: Dmitri Dmitriyevich **Shostakovich**

[10] The 'Battle on the Ice' is a movement from this Prokofiev cantata, which the composer created from his score for a 1938 Eisenstein film of the same name.

Answer: **Alexander Nevsky**

[10] This 'Father of the Soviet Symphony' wrote 27 symphonies in his lifetime and was awarded the Stalin Prize five times, more times than any other composer. He was inspired by the crash of the Maxim Gorky to write his *Aviation Symphony*.

Answer: Nikolai Yakovlevich **Myaskovsky** <Edinburgh, Auditory Fine Arts>

3. For 10 points each, answer some questions about big fuck-off statues:

[10] Five of the ten tallest statues in the world represent this spiritual figure. Statues of this figure carved into cliffs at Bamiyan in Afghanistan were destroyed by the Taliban in 2001.

ANSWER: the **Buddha** [accept Gautama **Buddha**, Siddhartha **Gautama** and Shakyamuni **Buddha**]

[10] *Christ the Redeemer* isn't even the largest statue of Christ in South America: *Cristo de la Concordia*, which overlooks this Bolivian city, is ten metres taller.

ANSWER: **Cochabamba** [accept **Uchapampa**]

[10] The tallest statue outside of Asia, and 10th tallest in the world, is this 85 m tall statue of a woman holding a sword erected on the Mamayev Kurgan hill in 1967 to commemorate the Battle of Stalingrad.

ANSWER: *The **Motherland Calls*** [or **Rodina-mat' zovyot!**] <Edinburgh/DK, Geography>

4. Answer some questions on an Islamic philosopher, for 10 points each:

[10] This philosopher and doctor used a thought experiment of a 'floating man' without any use of his senses as evidence for the soul's existence; he also wrote *The Book of Healing*.

ANSWER: **Avicenna** [or **Ibn Sina**]

[10] Avicenna's work was criticised by this philosopher, who listed twenty of his heresies in his book *The Incoherence of the Philosophers*.

ANSWER: **Al-Ghazali** [or **Algazel**]

[10] This Jewish philosopher was influenced by Avicenna when writing his *Treatise on Logic* and his most well-known work, *The Guide for the Perplexed*.

ANSWER: **Maimonides** [or Moses **ben Maimon**] <FCM, Philosophy>

5. For 10 points each, name some artists who painted the four seasons:

[10] In this Italian artist's series representing the four seasons, *Autumn* has hair made of grape bunches and a large squash for a head, while *Winter* appears as an old man made from a gnarled tree trunk with a withered lemon growing out of his neck.

ANSWER: Giuseppe **Arcimboldo** [accept **Arcimboldi**]

[10] This artist created a series that depicted Old Testament scene in each of the four seasons, ending with a calm, solemn depiction of *The Deluge* in *Winter* that later inspired a more dramatic treatment by J.M.W. Turner.

ANSWER: Nicolas **Poussin**

[10] This Czech artist created four panels of beautiful women among nature as *The Seasons*. This prolific designer of Art Nouveau advertising posters also created a cycle of huge historical paintings called *The Slav Epic*.

ANSWER: Alphonse **Mucha** [or Alfons Maria **Mucha**] <Edinburgh, Visual Fine Arts>

6. While working as Keeper of the Ashmolean Museum, this archaeologist conducted excavations of a Bronze Age palace at Knossos. For 10 points each:

[10] Name this archaeologist, whose work led to the rediscovery of many Minoan civilisation sites throughout Crete at the beginning of the 20th century.

ANSWER: Sir Arthur **Evans**

[10] Evans discovered this as-yet undeciphered script during his work on Crete. The largest quantity of tablets written in this script have been found at the Hagia Triada site.

ANSWER: **Linear A** [do not accept or prompt on 'Linear B']

[10] Another undeciphered script on Crete used these symbols. Other writing systems to have used these characters include those contained within the Dresden Codex and a Luwian language found in Anatolia.

ANSWER: **hieroglyphics** <FCM, Social Science>

7. After Gallagher offers a prisoner a cigarette to relax, another character in this novel shoots the prisoner in cold blood. For 10 points each:

[10] Name this novel, in which Lieutenant Hearn and the sadistic Sergeant Croft lead a platoon up Mount Anaka, in an attempt to drive out the Japanese on the fictional island of Anopopei.

ANSWER: *The **Naked and the Dead***

[10] *The Naked and the Dead* is the debut novel of this American author and journalist, who won the Pulitzer for *The Armies of the Night*.

ANSWER: Norman Kingsley **Mailer**

[10] Mailer won a second Pulitzer for this novel, made up of interviews with the friends and family of the murderer Gary Gilmore and his victims, leading to Gilmore's death by firing squad.

ANSWER: *The **Executioner's Song*** <Edinburgh/EWL, Literature>

8. Not all Scottish golfers are like Colin Montgomerie. For 10 points each, answer some questions about Scottish major champions of the last hundred years:

[10] This Edinburgh-born golfer scored the first ever "Archaeopteryx" (15 or more over par) when he made a 23 on a par 5 at the 1927 Shawnee Open. This "Silver Scot" went on to win the 1927 US Open, 1930 PGA Championship and the 1931 Open Championship.

ANSWER: Tommy **Armour**

[10] Armour won the 1931 Open Championship on this course in Angus. The Barry Burn is a notable feature of this course, which some have dubbed "nasty" due to its difficulty, especially in adverse weather conditions.

ANSWER: **Carnoustie** Golf Links

[10] Even though he represented Scotland in the World Cup of Golf, this two-time major champion was actually born in Shropshire. This golfer famously birdied the final hole of the 1988 Masters to become the first Brit to don the Green Jacket.

ANSWER: (Alexander Walter Barr) "Sandy" **Lyle** <Edinburgh, Trash>

9. For 10 points each, answer some questions about acts of parliament in the lead up to the American Revolution:

[10] The colonists' cry of "No taxation without representation" is often said to have originated primarily in response to the Sugar Act and this other Act of 1765 that imposed a direct tax on printed materials in the colonies.

ANSWER: **Stamp Act**

[10] The Stamp Act was followed in 1767 by this series of acts, including the Revenue Act and the Indemnity Act, named for the Chancellor of the Exchequer at the time. They sought to punish New York and ensure the loyalty of governors and judges by securing their salaries.

ANSWER: **Townshend Acts**

[10] As part of the Intolerable Acts promulgated in response to the Boston Tea Party, an act was passed expanding the size of this British Province into Ohio and removing references to the Protestant faith from the Oath of Allegiance.

ANSWER: Province of **Quebec** <DJ, History>

10. Stanley Kubrick often made use of classical music in his films. For 10 points each:

[10] Despite Alex's penchant for "old Ludwig van", the film of *A Clockwork Orange* uses music from this composer's operas for both a slow-motion fight between Alex and his Droogs, and, in an electronic adaptation, for his fast-motion sex scene.

ANSWER: Gioachino **Rossini** [music from *The Thieving Magpie* and *William Tell*]

[10] This electronic artist adapted the *William Tell Overture* for *A Clockwork Orange*, as well as producing electronic versions of *Beethoven's 9th* and Purcell's *Music for the Funeral of Queen Mary*.

ANSWER: Wendy **Carlos** [accept Walter **Carlos**]

[10] Probably the most memorable use of classical music in a Kubrick film is the opening of this film with the "Sunrise" fanfare from Richard Strauss's *Also Sprach Zarathustra*.

ANSWER: **2001: A Space Odyssey** [prompt on *A Space Odyssey*] <Edinburgh, Miscellaneous>

11. John Ashbery frequently set exams to his students asking them to compare one of this poet's works to one of Geoffrey Hill's *Mercian Hymns*. For 10 points each:

[10] Name this fictional poet, the centre of a famous literary hoax on the editor of *Angry Penguins* by James McAuley and Harold Stewart, and the inspiration for Bob McCorkle in the novel *My Life as a Fake*.

ANSWER: (Ernest Lalor) "Ern" **Malley**

[10] McAuley and Stewart allegedly wrote this 17-poem cycle attributed to Malley in a single afternoon. This cycle begins with a real poem by McAuley about a painting of Innsbruck by Albrecht Dürer.

ANSWER: *The **Darkening Ecliptic***

[10] Ern Malley and *Angry Penguins* are from this country, whose other authors include Miles Franklin and Patrick White.

ANSWER: **Australia** <Edinburgh/EWL, Literature>

12. This actor portrayed the dwarf Balin in *The Hobbit* film trilogy. For 10 points each:

[10] Name this Scottish actor who took over the title role from John Hannah in *Rebus*.

ANSWER: (Kenneth Campbell) "Ken" **Stott**

[10] Stott plays a property developer in the first series of this BBC drama series, which featured James Nesbitt as a father whose son disappears while on holiday in France.

ANSWER: ***The Missing***

[10] In this BBC series, Stott appeared as DCI Red Metcalfe, who investigates some particularly gruesome serial murders. This show's second series featured a man taking revenge following a miscarriage of justice and the fourth saw a series of murders based on Dante's *Divine Comedy*.

ANSWER: **Messiah** <DK, Trash>

13. The pi backbonding that occurs when this molecule adsorbs to a metal surface is considered in the Blyholder model. For 10 points each:

[10] Name this molecule, which is combined with hydrogen to produce syngas for use in the Fischer-Tropsch process.

ANSWER: **carbon monoxide** [or **CO**]

[10] The Fischer-Tropsch process requires one of these chemical species to help break the CO triple bond. These species provide an alternative pathway for a chemical reaction with a lower activation energy, without being consumed themselves.

ANSWER: **catalyst**

[10] The ratio of hydrogen to carbon monoxide in the Fischer-Tropsch process can be controlled using this important industrial reaction. The Cativa process for production of acetic acid was designed to suppress this reaction.

ANSWER: **water-gas shift** reaction [or **WGSR**] <EWL, Chemistry>

14. For 10 points each, answer some questions about the use of euphemisms in British politics:

[10] While a junior minister in the Colonial Office, Winston Churchill first used this euphemism meaning a lie or untruth when responding to a question, arguing that it wasn't strictly accurate to refer to Chinese slavery in the Transvaal.

ANSWER: "**terminological inexactitude**"

[10] During the *Spycatcher* trial, the Cabinet Secretary Robert Armstrong famously used the euphemistic phrase "economical with the truth" when being questioned by this lawyer and current Australian prime minister.

ANSWER: Malcolm **Turnbull**

[10] The euphemism "tired and emotional" became popular after it was used in a spoof diplomatic memo that appeared in *Private Eye* in 1967 to describe this Labour Foreign Secretary, who struggled with alcoholism and who changed his surname to his previous full name upon being made a lord.

ANSWER: George **Brown**, Baron **George-Brown** <DJ, History>

15. For 10 points each, give the real animal phyla to which the following Pokémon would likely belong if they were real animals:

[10] In what phylum would you class Weedle and Kingler from Generation I, and Ariados from Generation II?

ANSWER: **Arthropoda** [or **arthropod**(s); they are a larva, a crab, and a spider respectively]

[10] In what phylum would you class Cloyster and Tentacruel from Generation I, and Gastrodon from Generation IV? All three are Water-type Pokémon.

ANSWER: **Mollusca** [or **mollusc**(s); they are an oyster, a squid, and a sea slug respectively]

[10] Lastly, in what phylum would you class Bidoof, Pidgey and Magikarp?

ANSWER: **Chordata** [or **chordate**(s); do not accept or prompt on "vertebrate"; they are a beaver, a bird, and a fish respectively] <Edinburgh, Miscellaneous>

16. For 10 points each, answer some questions about mythological figures going to the underworld:

[10] In the *Kalevala*, Lemminkäinen drowns hunting a swan in the river of Tuonela, and his mother asks Ilmarinen to make her one of these implements to get his body back with.

ANSWER: Copper **rake**

[10] On the advice of Circe, Odysseus descends to Hades to consult this blind prophet, and then proceeds to ignore most of his advice.

ANSWER: **Tiresias**

[10] The Mayan hero twins go through an unintentional katabasis after the noise made by their ball game disturbs the lords of this underworld.

ANSWER: **Xibalba** <EBL, Mythology>

17. Metaphysical poets were obsessed with sex. For 10 points each:

[10] This poet tried to talk a woman into bed using the lines "It sucked me first, and now sucks thee / and in this flea our two bloods mingled be". This poet also wrote the *Holy Sonnets*.

ANSWER: John **Donne**

[10] The speaker of this poem by another author declares that he and the addressee should "tear our pleasures with rough strife / through the iron gates of life". The speaker is clearly in a rush, as he comments on "Time's winged chariot hurrying near".

ANSWER: "**To His Coy Mistress**"

[10] This poet and Anglican priest anagrammed on Mary Magdalene with the couplet "How well her name an *Army* doth present / In whom the *Lord of hosts* did pitch his tent!" found in his collection *The Temple*.

ANSWER: George **Herbert** <Edinburgh/EWL, Literature>

18. Present in some vertebrates, the vomero-nasal organ is an auxiliary organ used to detect these molecules. For 10 points each:

[10] Name this class of chemical messengers, secreted by animals to trigger a response in other individuals of the same species. These compounds are often used to determine breeding availability in sexual reproduction.

ANSWER: **pheromones**

[10] Pheromones called auto-inducers are used by bacteria in this process, which gauges the local population density and restricts the expression of certain genes until high densities are reached. It was first discovered in the bacterium *Aliivibrio fischeri*.

ANSWER: **quorum sensing**

[10] *Aliivibrio fischeri* uses quorum sensing to prevent the transcription of luciferase at low population densities, since luciferase enzymes cause this phenomenon to occur in organisms.

ANSWER: **bioluminescence** [or **chemiluminescence**; prompt on "**luminescence**" or "**light**"; do not accept "fluorescence" or "phosphorescence"] <EWL, Biology>

19. For 10 points each, answer some questions about contemporaneous pairs of hit singles that share a title:

[10] Entering the UK singles chart in May 1990, the debut singles of both En Vogue and Wilson Phillips shared this title.

ANSWER: "**Hold On**"

[10] 1980 saw Sheena Easton release a single with this title, though it was changed to "Morning Train" to avoid confusion with a Dolly Parton song with this title in which she "stumble[s] to the kitchen" and "pour[s] [herself] a cup of ambition".

ANSWER: "**9 to 5**"

[10] In 1996, the Lightning Seeds reached No. 20 in the UK singles chart with "Ready or Not", which shared its title with a bigger hit from the same year by this hip hop group, who also had a hit with "Killing Me Softly".

ANSWER: **Fugees** <Edinburgh, Trash>

20. For 10 points each, answer some questions about an episode of demonic possession in 17th century France:

[10] Aldous Huxley wrote an account on the demonic possessions that took place in a convent of nuns in this town of western France in the 1630s.

ANSWER: **Loudun**

[10] The possessed nuns at Loudun belonged to this religious order, whose patron saint, the daughter of a legendary king of Cornwall, was martyred by the Huns. In 1611, nuns of this order were exorcised at Aix-en-Provence after claiming that a local priest had caused them to be possessed by demons.

ANSWER: **Ursulines**

[10] The nuns at Loudun claimed that local priest Urbain Grandier was responsible for their possession. After a high profile trial, Grandier was executed by this method, usually reserved for offences of heresy, witchcraft and “crimes against nature”.

ANSWER: **burnt** at the **stake** [or reasonable equivalents] <OC, History>