

MKULTRA 3: Asking the Super-Important Questions

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Packet by Paranoid Android

Tossups

1. **This author borrowed a phrase repeated three times in Blake's *Auguries of Innocence* to title a short story in which Rad smuggles a bomb into his pregnant wife's suitcase as she boards an aeroplane. This author of "Some Are Born to Sweet Delight" and the short story collection *Beethoven Was One-Sixteenth Black* also wrote a novel in which an unidentified black man is found buried on (*) Mehring's farm. The keys to a *bakkie* are stolen by the title servant in another novel by this author, which ends with Maureen Smales running towards a helicopter during the fall of apartheid. For 10 points, name this South African author of *July's People*.**

ANSWER: Nadine **Gordimer** <EWL, Literature>

2. **The first one of these addresses described the "confidence of the people" as "more important than gold." The originator of these addresses had a removable bridge created in order to stop his bottom teeth from making a whistling noise. Another one described a military attack as a "war upon the whole human race." Harry C. Butcher coined the name for these addresses, which supplemented the work of Stephen Early. The phrase "Arsenal of Democracy" (*) was used to describe a policy of arming democratic allies in these speeches. The first one of these explained why legislation had been passed to close banks for eight days. For 10 points, what name is given to the series of 30 radio addresses given by Franklin Roosevelt between 1933 and 1944?**

Answer: **Fireside** Chats [prompt on speeches by Franklin Roosevelt or equivalents] <JL, History>

3. **In an industrial example of this reaction, a complex of iridium with a Josiphos ligand is used to synthesise the herbicide met-al-o-chlor. The most common mechanism for this reaction is named for Horiuti and Polanyi. A complex of BINAP ["bee-nap"] and ruthenium was used to catalyse an asymmetric type of this reaction by Ryoji Noyori. This reaction is the most common use of the rhodium-based (*) Wilkinson's catalyst. Lindlar's catalyst is used for an example of this reaction which converts alkynes to alkenes. Unsaturated vegetable oils undergo this reaction to produce margarine. For 10 points, name this type of reaction where a compound reacts with the lightest element.**

ANSWER: **hydrogenation** [prompt on reduction] <Paranoid Android/EWL, Chemistry>

4. **Like many similar works in the same collection, one of these objects called "Dogmatic" depicts the Holy Trinity as three identical figures creating Eve. Three men offer animals and a boat in the fresco on one of these objects from the Minoan city of Hagia Triada. Michelangelo's *Battle of the Centaurs* built on a work by Bertoldo di Giovanni that copied the style of one of these objects. A beardless Christ enters Jerusalem in the manner of a (*) Roman emperor in the decoration on one of these objects named for Junius Bassus. Relief sculptures of battles often decorated these objects usually topped with a recumbent effigy in medieval art. For 10 points, give this term for a stone coffin.**

ANSWER: **sarcophagus** [or **sarcophagi**; accept **stone coffin** until mentioned; prompt on coffin until mentioned; prompt on tomb] <ED, Visual Fine Arts>

5. **The Outer Trial Bank, built in 1975, is one vestige of an attempt to create a freshwater reservoir from this body of water. The need for concrete runways during the Second World War saw gravel pits excavated on the shore of this body of water at Snettisham. An area of salt marsh and sand dunes is located at Gibraltar Point at the entrance to this body of water. The (*) Hunstanton Formation is a layer of red chalk named for a town on this body of water. The Haven is a navigable river**

that provides access between Boston and this body of water, which is fed by the estuaries of the Witham, Welland, Nene and Great Ouse rivers. For ten points, name this large bay and estuary located between Norfolk and Lincolnshire.

ANSWER: The **Wash** <Paranoid Android/DK, Geo>

6. **Around the 11th Century AD, ancestors of these people built a structure now called the Great North Road. A group of these people were besieged at Moho by Francisco Coronado during the Tiguex ["ti-wesh"] War, and a leader of these people used knotted ropes to co-ordinate a revolt from Taos that drove the forces of Antonio de Otermin out of (*) New Mexico. That leader declared that "The God of the Christians is dead, he was made of rotten wood" and is commonly called Popé. For ten points, name these indigenous peoples of the American Southwest, including the Zuni, Keres, Tewa and Hopi, who are collectively named for their multi-story communal village housing.**

ANSWER: **Puebloans** or **Pueblo** people [accept **Anasazi** as well as more specific subdivisions as listed] <Paranoid Android, History>

7. **Early research by this scientist explored the value of the potato as a source of dietary nitrogen. With Alan Coulson, this scientist developed the "Plus and Minus" method to study the phi X 174 bacteriophage. A reagent named for this scientist is an isomer of fluoro-di-nitro-benzene used to add di-nitro-phenyl groups to amino acids. (*) Illumina's "Next-Gen" process has replaced a method developed by this scientist which can use dye-terminated ddNTPs to reduce four separate reactions into one. This scientist was the first to sequence the A and B chains of insulin. For 10 points, name this only scientist to win the Chemistry Nobel twice, who developed a namesake method of sequencing.**

ANSWER: Frederick **Sanger** <EWL, Biology>

8. **An inscription on Zhifu island records that a ruler of this dynasty "arrived at Fu; carved this stone" whilst looking for a magical potion. The second ruler of this dynasty was presented with a deer by his chancellor, Zhao Gao, who called it a horse and executed people who said it was a deer. The state from which this dynasty was founded won the battles of Yique and Changping, and was earlier organised along Legalist principles by (*) Shang Yang. For two months after his death, Li Si arranged for the founder of this imperial dynasty to be carried in a litter accompanied by rotting fish to disguise the smell, before he was buried near Xi'an. For 10 points, name this short-lived dynasty, whose founder ordered the Terracotta Army to be made, the first to rule a unified China.**

ANSWER: **Qin** Dynasty [or Qin Chao] <Paranoid Android, History>

9. **One character in this play declares "I shudder when I think that the earth takes a whole day to rotate. What a waste of time!" A doctor in this play chastises the title character for "pissing in the street" and enrolls him on a scientific experiment where he can only eat peas. Two characters in this play are spotted dancing at the Horse and Stars tavern. (*) Karl Emil Franzos added the stage direction "He drowns" to the end of this play, after the title character swims out into a lake to hide a knife used to kill his lover Marie, who has been cheating with the Drum Major. For 10 points, name this unfinished play about a murderous military barber, written by Georg Büchner and adapted into an opera by Alban Berg.**

ANSWER: **Woyzeck** ["Voy-check"] [accept the mis-pronounced **Wozzeck**] <Paranoid Android/EWL, Literature>

10. **The "Cowherdite" Bible Christian Church was a sect based on teetotalism and this practice. Amirim is an Israeli moshav founded in 1958 by practitioners of this custom. In the *Gospel of the Ebionites*, a change in one word has been used to argue that John the Baptist followed this practice. There is debate as to whether the principle of *Tza'ar ba'alei chayim* places this restriction on Jews, and supporters of this practice often cite the principle of *bal tashchit*, or the prohibition of (*) waste. Rastafari adhering strictly to I-tal follow this practice to increase Livivity. Not all Hindus and**

Buddhists interpret the precept of *ahimsa* to entail this practice, whereas all Jains do. For ten points, name this dietary practice, followed by Mahatma Gandhi and Pythagoras.

ANSWER: **vegetarianism** [accept descriptive answers, as well as **veganism**, ovo-/lacto-**vegetarianism** and **pescatarianism**]

11. The music video for this song begins with a view of English countryside intercut with shots of seated school children. "It's All the Rage" was the B Side to this song, which opens with rapid descending scales on the piano. This song speaks of a "telex machine [that] is kept so clean" and it was the first single to be released off the album (*) *The Fine Art of Surfacing*. This song opens with the lines "Silicon chip inside her head / Gets switched to overload" and states that "the lesson today is how to die". Taking its name from a school shooter's explanation for her actions, for ten points, name this 1979 single by The Boomtown Rats.

ANSWER: "**I Don't Like Mondays**" <DK>

12. A 2012 book by Romit Dasgupta concerns "re-reading" the roles of some workers in this country with regard to masculinity. One set of literature from this country examines the intrinsic differences between it and the rest of the world. It isn't the USA, but William W. Kelly has written about the influences of association football and (*) baseball within this country. One anthropological work concerning this country suggested that it was an example of a 'shame culture': that work's author had to examine 'culture from a distance' due to this country's war with the United States. For ten points, name this country, the subject of a 1946 ethnography by Ruth Benedict, *The Chrysanthemum and the Sword*.

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

13. One of these things sharing the name of journalist Jon Ronson prompted him to post a shaming video of the academics who created it. Andrés Sepúlveda claimed to have used 30,000 of these things in 2012 to derail Andrés Manuel López Obrador's campaign. "Repeat after me" was used to exploit one of these entities that added the caption "Swag Alert" to a photo of (*) Hitler and advocated genocide; that one of these entities called Tay was promptly shut down by Microsoft. Up to 15 percent of users on a popular microblogging site may be, for 10 points, what automated programs that write in snippets of up to 140 characters?

ANSWER: **Twitter bots** [or **bots** that **tweet** or **programs** that **tweet** until mentioned; prompt on **bots** or **chat(ter)bots** or **spambots**; accept clear knowledge equivalents combining the concept of **Twitter** and a nonhuman **program** or **AI**] <Paranoid Android, Miscellaneous>

14. Carlo Rambaldi based the face of E. T. on Albert Einstein, Ernest Hemingway and this writer. One poem by this author states "Two years, ten years, and passengers ask the conductor: / What place is this? / Where are we now?" In a poem written while waiting for a juvenile court judge, this poet described how a certain phenomenon "comes / on little (*) cat feet." He described the subject of another poem "Laughing the stormy, husky, brawling laughter of Youth, half-naked, sweating," and as "Tool Maker, Stacker of Wheat / Player with Railroads and the Nation's Freight Handler." For 10 points, name this poet of "Grass" and "Fog" who wrote of the "Hog Butcher for the World" in "Chicago".

ANSWER: Carl **Sandburg** [accept Carl **Sandberg**] <DJ, Literature>

15. This geological period saw the first evolutionary radiation of sharks, which included the formation of the "spine-brush complex", a flat-topped fin found on *Stethacanthus*. The development of the amniote during this period allowed eggs to be laid in a dry environment. During this period, a possible drop in atmospheric oxygen levels caused a fifteen-million-year discontinuity in the fossil record dubbed (*) "Romer's gap". A plume centred around Skagerrak is believed to have contributed to this period's namesake "rainforest collapse". For 10 points, name this Paleozoic period which followed the Devonian and is named for all the coal that formed during it.

ANSWER: Carboniferous period <EWL, Other Science>

16. **The only Conservative to have held this title is John Randall, who shared it in 2012, while Julian Huppert is one of two Liberal Democrats to have held it outright. Tom Watson and Gerry Adams both became ineligible to defend this title, since Adams resigned as an MP to stand in the Dáil, and Watson gave up a necessary personal characteristic. In December 2016, an “eyebrow combo” was praised in awarding a record seventh victory in this competition to (*) Jeremy Corbyn.** For 10 points, name this annual award made by a namesake Liberation Front to “the MP or Peer” whose male “hirsuteness” has made the most impact.

ANSWER: Parliamentary Beard of the Year [accept descriptions such as MPs’ Beard of the Year; prompt on Beard of the Year or Beard Liberation Front] <Paranoid Android, Miscellaneous>

17. **The final movement of this symphony was originally titled “Dall’ Inferno al Paradiso” after Dante, and a trumpet serenade originally written to set a von Scheffel poem forms a movement rejected from this work. The score calls for seven horn players to stand at this symphony’s climax. This work opens with a falling motif of A-E-F-C-D-[B flat]-A interrupted by clarinet and trumpet fanfares while the strings play a (*) seven octave drone. A descending fourth motif in the clarinet imitates a cuckoo call in this symphony’s first movement. The third movement imitates Klezmer music and begins with a double bass solo, introducing a funeral march canon on ‘Frere Jacques’.** For 10 points, name this Gustav Mahler symphony that precedes the Resurrection.

ANSWER: Gustav Mahler's Symphony No. 1 in D major, "Titan" [accept either; don't require Mahler after read, also accept clear equivalents like "Mahler's First Symphony"] <EWL, Auditory Fine Arts>

18. **In an early television role, this actor portrayed the only son of a widower North Carolina sheriff, who was cared for while growing up by his great-aunt Bee. One character played by this man gets married to his girlfriend Lori Beth over the telephone with the assistance of his best friend, played by (*) Henry Winkler.** This man appeared as himself during the Netflix-based fourth season of a programme which he narrates, alongside an Isla Fisher analogue for his real-life ginger daughter Bryce. This narrator of *Arrested Development* portrayed Opie Taylor on *The Andy Griffith Show* and Richie Cunningham on *Happy Days*. For ten points, name this American actor who has also directed films including *Frost/Nixon* and *A Beautiful Mind*.

ANSWER: Ronald William Howard [prompt on just Howard] <FCM, Trash>

19. **In the 2013 edition of this tournament, Rafael Nadal hit an incredible overhead passing shot winner in defeating Ryan Harrison in the first round. Dan Evans failed to convert a match point in the third round of the 2016 edition of this tournament against the eventual winner. In that same edition, John McEnroe called (*) Gaël Monfils “borderline unprofessional” when he started hitting soft balls in an attempt to unsettle Novak Djokovic in the semi-finals. Marin Čilić defeated Kei Nishikori in the final to win the 2014 edition of this tournament. Andy Murray won his first Grand Slam title at, for ten points, which tournament staged at Flushing Meadows in New York?**

ANSWER: United States Open Tennis Championships <DK, Trash>

20. **The Ojibwe people believe that the spirit Nanabozho, who named the plants and animals and invented fishing, manifested as one of these creatures, named Mishaabooz. The Vietnamese Zodiac replaces this creature in the Chinese Zodiac with a cat, as this creature is not native to Southeast Asia. The Aztecs associated the alcoholic drink, pulque [“PULL-KAY”] with four hundred deities in this form. According to the Buddhist Jataka tales, this animal’s (*) self-immolation to provide food for a beggar led to its image being drawn on the moon, which in Chinese tradition is also the home of a creature of this sort called Yutu.** For ten points, name this small herbivore, associated with Easter in Northern European Christianity.

ANSWER: rabbit [accept hare etc.] <EBL, Myth>

Bonuses

1. For 10 points each, answer the following on the “High-Tech” Movement in British architecture:

[10] This architect in the “High-Tech” style designed the “Gherkin” and laid out the Great Court of the British Museum. He also added a glass dome to the Reichstag.

ANSWER: Norman (Robert) **Foster**, Baron Foster of Thames Bank [or Sir Norman **Foster**; or Lord **Foster**]

[10] Future Systems won the 1999 Stirling Prize for a “High-Tech” extension to this London location; that extension consists of the world’s first aluminium semi-monocoque, placed 15 metres above the ground and with only one openable window despite a whole face of the building being downwards-angled glass.

ANSWER: **Lord’s** Cricket Ground [or **Lord’s Media Centre**; or **J.P. Morgan Media Centre**; prompt on **Marylebone Cricket Club** or **MCC**]

[10] This architect used a tent-like fabric roof on his design for the Mound Stand at Lord’s, and previously in the Schlumberger research centre in Cambridge. With his wife Patricia and their firm, he also designed the new Glyndebourne Opera House.

ANSWER: Sir Michael (John) **Hopkins** [or **Hopkins** Architects] <Paranoid Android, Visual Fine Arts>

2. In one work, Karl Popper accused holders of this philosophical idea of having a ‘persistent and pernicious influence on the philosophy of society and of politics’. For 10 points each:

[10] Name this school of thought, which Popper defined as the logical and necessary development of events according to discernible principles in a 1957 book.

ANSWER: **historicism**

[10] Popper’s *The Poverty of Historicism* was so called in order to allude to *The Poverty of Philosophy*, an 1847 work by this communist theorist and proponent of historical materialism.

ANSWER: Karl **Marx**

[10] In the title of *The Poverty of Philosophy*, Marx was himself responding to and critiquing *The Philosophy of Poverty*, a work by this mutualist French philosopher.

ANSWER: Pierre-Joseph **Proudhon** <Paranoid Android, Philosophy>

3. Inhabitants of this city include Avice Benner Cho, the ‘human simile’ known as ‘the girl who was hurt in the dark and ate what was given to her’. For 10 points each:

[10] Name this city, the only human settlement on the planet Arieika, on the edge of the *manchmal*, inhabited partly by the eponymous genetically-engineered twin diplomats.

ANSWER: **Embassytown**

[10] Twins are the only humans capable of pronouncing the Ariekei language, as it requires multiple words to be spoken simultaneously, due to each Ariekei possessing two of this bodily feature.

ANSWER: **mouths** [not “heads”]

[10] Embassytown was created by this British fantasy writer, who also created the intertwined cities of Beszel and Ul Qoma in *The City & the City* and the city-state of New Crobuzon in *Perdido Street Station*.

ANSWER: China **Miéville** <EBL, Trash>

4. Sequels: they never live up to the original. This was never more true than with the Crusades. For 10 points each:

[10] The first major act of the Fourth Crusade was to sack this Dalmatian port as payment to the Venetians for transport. This city had rebelled from Venetian control twenty years earlier, placing itself ironically under the protection of the Pope and King Emeric of Hungary.

ANSWER: **Zara** [or **Zadar**; or **Iadera**; or **Jadres**]

[10] The crusaders went on to sack Constantinople, leading this prominent 20th Century historian of Byzantium and the Crusades to say, apparently without irony, that “There was never a greater crime against humanity than the Fourth Crusade.” A 2016 biography of this man was titled *Outlandish Knight*.

ANSWER: Sir Stephen **Runciman**

Comments by this man in 2001 and 2004, addressed to the Archbishop of Athens and the Patriarch of Constantinople, were interpreted as an apology for the Fourth Crusade, which contributed heavily to the Great Schism between this man's institution and the Eastern Orthodox Church.

ANSWER: Pope **John Paul II** [or Karol Józef **Woityła**; or **Iohannes Paulus II**; or **Giovanni Paulo II**; prompt on "the **Pope**"] <Paranoid Android/DJ, History>

5. This athlete won a silver medal at the 2016 Rio Olympics competing with Victoria Thornley. For 10 points each:

[10] Name this British rower who, after winning silver at each of the previous three Olympics, finally struck gold at London 2012 partnering Anna Watkins.

ANSWER: Katherine (Jane) **Grainger**

[10] Grainger and Watkins won gold in 2012 in this specific rowing event.

ANSWER: **Double sculls** [prompt on just **sculls** or **sculling**]

[10] This athlete won a gold alongside Grainger in the Quadruple sculls at the 2005 World Rowing Championships, before switching to cycling and winning gold in the individual pursuit at the 2008 Olympics.

ANSWER: Rebecca (Jayne) **Romero** <Paranoid Android, Trash>

6. The Iron Age C and D periods of this culture saw increased numbers of hillforts and trade in salt and amber. For 10 points each:

[10] Flourishing from around 1200 BC to about 450BC, this central European Iron-Age culture is often cited as the beginning of recognisably "Celtic" peoples. It is named for its type site in the federal state of Upper Austria.

ANSWER: **Hallstatt** C/D

[10] The La Tène culture which followed saw major expansion of Celtic peoples across Europe. In 390 or 387 BC, one tribe, the Senones, came into conflict with this city, though there is little archaeological evidence of the legendary sack.

ANSWER: **Rome**

[10] The leader of that expedition shared this name with another Celtic chieftain, who defeated an alliance of Greek states at Thermopylae in 279 BC, but, wounded in a failed assault on Delphi, committed suicide by drinking unmixed wine.

ANSWER: **Brennus** [or **Brennos**] <OC, History>

7. Do you want to live forever? If so, you might already belong to this movement. For 10 points each:

[10] In the 2016 Election, Zoltan Istvan ran for President on a platform based on this philosophy, which is centred around using science and technology to transform mankind.

ANSWER: **transhumanism** [or **H+**]

[10] For his campaign, Istvan drove the "Immortality Bus" across America, which was kitted out to look like one of these objects. Conversely, in Ghana, these items have often been made to resemble cars and vans.

ANSWER: **coffins** [accept obvious synonyms]

[10] Many transhumanists believe this event will occur in the near future, when technology will be able to design things more intelligent than itself. This event named by analogy to the conditions of the Big Bang is predicted for 2045 by Ray Kurzweil in a book saying this time *is Near*.

ANSWER: technological **singularity** [accept *The **Singularity is Near***] <Paranoid Android, Miscellaneous>

8. This author described seeing certain objects that "tossed and reeled and danced and seemed as if they verily laughed with the wind" in their *Grasmere Journals*. For 10 points each:

[10] Name this person, who is addressed in the third movement of a poem which describes hearing "waters, rolling from their mountain-springs" on a walking tour of the Wye River "five years past".

ANSWER: **Dorothy Wordsworth** [prompt on Wordsworth; do not accept “William Wordsworth”]

[10] The objects described by Dorothy in *Grasmere Journals* were these flowers. Her brother William described seeing ten thousand of these flowers “dancing in the breeze” in “I Wandered Lonely as a Cloud”.

ANSWER: **daffodils**

[10] This author included Dorothy Wordsworth with Mary Wollstonecraft in the “Four Figures” section of the second volume of *The Common Reader*, claiming that Wordsworth “ruthlessly subordinated” herself “to the trees and the grass.”

ANSWER: Virginia **Woolf** <Paranoid Android/EWL, Literature>

9. Answer the following about the Michaelis-Menten equation, for 10 points each:

[10] The Michaelis-Menten equation is used to model these biological entities, which bind to a substrate and catalyse a reaction, as shown in the “lock-and-key” model for these proteins.

ANSWER: **enzymes**

[10] Briggs and Haldane used this approximation in their analysis of Michaelis-Menten kinetics, which assumes that the concentration of the enzyme-substrate complex remains constant on the time-scale of product formation.

ANSWER: **steady-state** approximation [or quasi-**steady-state** approximation, or **Briggs-Haldane** approximation]

[10] The Michaelis-Menten scheme can be analysed using a Lineweaver-Burk plot, which takes this form. Give your answer as a function of the velocity, V, against a function of the substrate concentration, S.

ANSWER: **1/V** against **1/S** [or **double reciprocal**; or other equivalents] <EWL, Chemistry>

10. Does life imitate art, or vice versa? When it comes to political events and *The Thick of It*, it’s hard to tell. For 10 points each:

[10] This compound word coined by Malcolm Tucker was named Word of the Year by the OED in 2012, after Ed Miliband used it to describe the disastrous U-turns of George Osborne’s “pasty tax” budget.

ANSWER: **omnishambles**

[10] The Christmas special device of Hugh Abbot being stuck in Australia when the Prime Minister resigns was paralleled in Tom Watson being at Glastonbury in June 2016 when Jeremy Corbyn sacked this then-Shadow Foreign Secretary.

ANSWER: Hilary (James Wedgwood) **Benn**

[10] Peter Mannion’s inability to pronounce a punning sentence on this word was recalled with Michael Gove’s 2012 announcement that school pupils should design these things during lessons.

ANSWER: **app(s)** [accept **I Call App Britain**] <Paranoid Android, Miscellaneous>

11. Robert Mugabe has dominated postcolonial politics in Zimbabwe. For 10 points each:

[10] Mugabe is the founder and president of this party which regained a majority in the House of Assembly in 2013.

ANSWER: **ZANU-PF** or **Zimbabwe African National Union – Patriotic Front** [do not accept or prompt on ZANU, because he didn’t found ZANU]

[10] Mugabe fought against a white minority government led by this man who announced Rhodesia’s independence from Britain in the Unilateral Declaration of Independence.

ANSWER: Ian **Smith**

[10] Mugabe succeeded this bishop as Prime Minister of Zimbabwe who founded the United African National Council with Canaan Banana.

ANSWER: Abel **Muzorewa** <JL, History>

12. Unaccustomed as I am, ladies and gentlemen, to public speaking, I present three bonuses on Roman oratory. For 10 points each:

[10] A history of Roman oratory written by Cicero in the form of a dialogue includes this figure as an interlocutor, who took time out from stabbing Julius Caesar in the back to ask for a history lesson.

ANSWER: **Brutus**

[10] Cicero's work gives credit where credit is due to his Greek predecessors, but Cato the Elder was less charitable, apparently claiming that students spent so long studying rhetoric at the school belonging to this fourth-century Athenian orator that they were only taught to plead cases in Hades.

ANSWER: **Isocrates**

[10] The posited decline of Roman oratory (and political freedom) under the emperors is the topic discussed in the *Dialogus de Oratoribus*, a work by this historian, whose surviving works include the *Agricola* and *Germania*.

ANSWER: Cornelius **Tacitus** <Paranoid Android/EWL, Literature>

13. Answer the following about object-oriented programming languages, for 10 points each:

[10] This concept in object-oriented programming allows a hierarchical structure of classes, in which subclasses can take on the attributes of a higher class.

ANSWER: **inheritance**

[10] This language developed by Sun Microsystems is commonly used for object-oriented programming, and is named for a type of coffee.

ANSWER: **Java** [accept numerical versions up to 8, do not accept "JavaScript"]

[10] Polymorphism in object-oriented languages allows the use of this concept, in which a programmer can rewrite the semantics of operators and use them in other ways.

ANSWER: operator **overloading** <EWL, Other Science>

14. According to one website, only 58% of major movies meet the following minimum criteria. For 10 points each:

[10] This rule was first formulated in the comic strip *Dykes to Watch Out For*, and asks whether a work features at least two women having at least one conversation about something other than a man.

ANSWER: **Bechdel**-Wallace Test

[10] In a similar vein, the "Mako Mori Test" asks whether female characters have a narrative arc not based around a man, and is named for the only real female character in this 2013 Guillermo del Toro action movie.

ANSWER: **Pacific Rim**

[10] Comic writer Kelly Sue DeConnick has suggested an alternative to the Bechdel Test, whereby "if a female character can be taken out and replaced with <this object>, you're a hack."

ANSWER: **sexy lamp** [prompt on partial answer] <PA, Trash>

15. There are a bunch of sacred mountains in China, but we don't usually ask about most of them. So for 10 points each, answer the following about Mt Kailash:

[10] In Hindu tradition, Kailash is made of crystal, ruby, gold, and lapis lazuli, and it is the seat of this member of the Trimurti, the chief god of Shaivism.

ANSWER: **Shiva** [or **Mahadeva**; or **Parameshvara**]

[10] In Jainism, Kailash is seen as the cosmic mountain Meru Parvat, and is next to the mountain where Rishabhadeva, first of these religious figures, achieved enlightenment.

ANSWER: **Tirthankaras** [or **fordmakers**]

[10] In Tantric Buddhism, Kailash was the site of a race between the sorcerer Naro Bön-chung, who rode a flying drum, and the bodhisattva Milarepa, who won by riding this natural phenomenon.

ANSWER: **sunlight** [accept clear-knowledge equivalents; prompt on "the sun"]

16. Sections of one work by this author describe figures such as the Major Counsellor and the Controller First Secretary. For 10 points each:

[10] Name this author, who included 185 short sections such as "Things that make one nervous" in her Heian-period text *The Pillow Book*.

ANSWER: **Sei** Shonagon [or **Kiyohara** no Nagiko; prompt on **Shonagon**]

[10] *The Pillow Book* is an example of this genre of literature, which loosely translates as “follow the brush” and typically consists of a series of personal essays and fragments. Other examples of this genre are *Hōjōki* and *Tsurezuregusa* [“Tsu-rez-you-ree-gu-sa”].

ANSWER: **zuihitsu**

[10] This other author described Sei Shonagon as “very arrogant” in her diary. This other lady-in-waiting at the Heian court wrote *The Tale of Genji*.

ANSWER: Lady **Murasaki** Shikibu [prompt on **Shikibu**] <Paranoid Android/EWL, Literature>

17. Leontyne Price became the first African-American to sing a leading role at La Scala playing this opera’s title character. For 10 points each:

[10] Name this opera by Giuseppe Verdi, which premiered in Cairo and features an enslaved Ethiopian princess.

ANSWER: **Aida**

[10] The “Triumphal March” in *Aida* plays when this Egyptian commander returns victorious to Thebes. He is later condemned for an affair with Aida and the pair of them are sealed in a vault to die.

ANSWER: **Radamès**

[10] Antonio Ghislanzoni’s two libretti for Verdi were *Aida* and this other opera, in which Leonora plans to elope with Don Alvaro, to the displeasure of her brother Don Carlo.

ANSWER: *The **Force of Destiny*** [or *La **forza del destino***] <EWL, Auditory Fine Arts>

18. Though he didn’t much like epic poets and their fantastical tales, Plato wasn’t averse to making up a few myths of his own. For 10 points each:

[10] In the *Timaeus* and *Critias*, Plato provides the first known references to this mythical island, which he claims fought a war with Athens nine thousand years earlier before sinking into the sea.

ANSWER: **Atlantis**

[10] The concluding chapters of the *Republic* are devoted to the story of this man, whose corpse did not decompose for twelve days, at which point he revived and was able to recount his journey through the afterlife.

ANSWER: **Er**

[10] Er is able to recall the details of the processes of death, judgement and reincarnation because he passed through this area without drinking from a river of the same name.

ANSWER: **Lethe** [or **Ameles**]

19. Examples of this type of territory include the Azores and French Guiana. For 10 points each:

[10] Name this type of territory which is part of an EU member state but is situated a significant distance from mainland Europe. These territories are automatically subject to primary and secondary EU law, though derogations can be made in light of their exceptional situation.

ANSWER: **outermost regions** or **OMR** [do not accept “OCT” or “overseas country and/or territory”]

[10] In 2007, the status of Saint-Martin and Saint-Barthélemy had to be clarified in the Treaty of Lisbon, after they split from this French overseas region in the Caribbean whose main islands are Grand-Terre and Basse-Terre.

ANSWER: **Guadeloupe** [or **Gwadeloup**]

[10] All OMRs are part of the EU Customs Union, but some, including Guadeloupe, are not part of this area in which border controls have been abolished. The UK and Ireland are the only two current EU members who have an opt-out from joining this area.

ANSWER: **Schengen** area [accept equivalents such as **Schengen** zone; generously accept **Schengen** Agreement as that is the treaty rather than the area] <Paranoid Android, Geography>

20. This phenomenon leads to spin frustration in the Kagome lattice. For 10 points each:

[10] Name this phenomenon, in which magnetic moments align in opposite directions below the Néel temperature. Spin canting occurs in materials exhibiting this phenomenon.

ANSWER: **antiferromagnetism** [do not accept “ferromagnetism”]

[10] Some antiferromagnetic materials unusually exhibit a magnetic moment near absolute zero due to this phenomenon, where an imbalance in isotropic and antisymmetric exchange disrupts spin alignment.

ANSWER: spin **canting**

[10] Above the Néel temperature, thermal disorder becomes dominant and the material exhibits this phenomenon, where induced magnetic fields in the material align with an external field. This type of magnetism is caused by unpaired electrons.

ANSWER: **paramagnetism** <EWL, Physics>