

MKVLTRA: Tamashi Gunkan

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Packet 2: Sex Is Sort Of Philosophically Impossible

Tossups

1. **This person told their foster-father to whip 24 horses with a burnt holly branch, leading to the one remaining horse finding buried gold. This person was found as a baby by a salmon fisherman, and immediately proceeded to sing a four-stanza poem at him. This person prophesied the imminent death of a king at age thirteen, and may have later written an elegy for that king's son Rhun. This figure was reborn with a new name after transforming into a piece of corn and being eaten by the enchantress (*) Cerridwen. This person was originally named Gwion Bach, but was renamed for his forehead after sucking his thumb when three drops of Inspiration landed on it. For 10 points, name this semi-legendary Welsh bard, whose name means 'radiant brow'.**

ANSWER: **Taliesin** (tal-YES-in) [accept **Gwion Bach** until said]

<EL>

2. *NOTE TO MODERATORS: please note the bracketed instructions in the second sentence.*

This piece transitions from its *andante sostenuto* opening, to an *allegro* section after all instruments drop out apart from the timpani playing a one bar roll. That change in tempo is foreshadowed by bursts of fanfare with the following rhythm: (*read very slowly*) five sixteenth notes, two eighth notes, an eighth note rest and an eighth note. This piece was originally intended to be the final tableau in its composer's *Press Music Celebration Suite*. This piece opens with a repeating, ominous two chord motif. (*) This piece was often performed under names such as *A Scandinavian Choral March* and *Happy Feelings at the awakening of Finnish spring*, in order to avoid censorship by Russian authorities. For 10 points, name this nationalist tone poem by Jean Sibelius.

ANSWER: **Finlandia**

<GC>

3. **Justin Bieber supposedly makes an appearance at a celebrity basketball game in one episode of this show, but is played by actor Austin Crute. One character on this show engages in a series of transactions that starts with pawning a phone for a samurai sword and ends several episodes later with the sale of Cane Corso puppies. At the end of this show's pilot, a man in a bowtie gives advice on a bus before aggressively insisting the main character takes a bite of a (*) Nutella sandwich. A black teenager who believes himself to be a 35-year old white man and a former child star named Teddy Perkins are one-off characters who appear in this series. For 10 points, name this comedy-drama series, created by Donald Glover and named for the city in which it takes place.**

ANSWER: **Atlanta**

<BB>

4. **The memoirs of a person with this occupation title a work by George Lippard. A character with this occupation is introduced as having "a mouth [...] expressing both**

nervous sensibility and a vast power of self-restraint”; that character later laughs bitterly while whipping himself in secret. A person with this occupation describes his advice as (*) “two-stranded” and speaks solemnly “like the continual tolling of a bell in a ship that is foundering at sea in a fog”. In *The Scarlet Letter*, Pearl is fathered by a man with this occupation whose name is Arthur Dimmesdale, and this is the occupation of Gookin in *Young Goodman Brown*. For 10 points, give the occupation of Father Mapple in *Moby Dick*.

ANSWER: **priest** [or **deacon** or **preacher** or **cleric** or **clergyman** or **pastor** or **parson** or **churchman** or any equivalent title for an ordained person who works in a church; accept (church) **father** before mentioned]

<AH>

5. In August 2018, teenage activist Fatemeh Khavari increased support for Afghan refugees by being pictured beside this person, whose own formative years are discussed in the memoir *Scenes from the Heart*. In 2019, this figure was depicted in an effigy at Dusseldorf carnival, painted half-underwater by Jody Thomas on a (*) wall in Bristol and asked to write an essay for *Notes on a Conditional Form*. In one speech, this figure discussed the necessity of Notre Dame-inspired “cathedral thinking”, while in another address they asked their audience to “act as if the house is on fire”; those speeches are collected in *No One is Too Small to Make a Difference*. The initiator of the “school strikes for the climate”, for 10 points, name this 16-year-old activist from Sweden.

ANSWER: Greta Tintin Eleonora Ernman **Thunberg**

<EW>

6. The Monolithic Yenasteen stone is found in this country near the archaeological site of Rinyo. A typical low entrance passageway leads to rectangular chambers typical of this country’s Maeshowe [mays-how] type tombs. A site in this country provides the earliest European evidence of the human flea and was home to members of the Grooved Ware people who performed religious ceremonies at the (*) Ring of Brodgar. Margate Simpson, an archaeologist from this country, helped Vere Gordon Childe to examine the sites of Kindrochat and Skara Brae in this country. For 10 points, name this country, home to the prehistoric sites of Neolithic Orkney.

ANSWER: **Scotland** [prompt on United Kingdom]

<D]>

7. This thinker argued that “the problem St Paul struggles with is how to avoid the trap of perversion, that is, of a Law that generates its transgression” and critiqued Alain Badiou’s approach to Romans 7 for removing the Hegelian dialectical relationship between death and resurrection. This thinker developed another thinker’s notion of a barred subject in a work in which he argued that *jouissance* provided the “obscene underside of the law” which allows people not to perceive themselves as constrained by Capitalism. Works like *Looking Awry* helped this thinker introduce (*) Lacanian thought to a broader audience. In a debate entitled *Happiness: Capitalism vs. Marxism*, this creator of *The Pervert’s Guide to Cinema* clashed with Canadian celebrity Jordan Peterson. For 10 points, name this author of *The Sublime Object of Ideology*, Slovenia’s favourite frenetic philosopher.

ANSWER: Slavoj **Zizek**

<D]>

8. **This element was transmuted into gold as part of an experiment led by Glenn Seaborg. A compound of this element and antimony was the first observed topological insulator. This is the most naturally diamagnetic element. Lead is separated from this element by the Betterton-Kroll process. An isotope of this element has a half-life of 19 exayears, (*)** the longest of any to undergo alpha decay. That isotope is this element's 209-isotope. This element's subsalicylate is sold as an antacid under the brand name Pepto-Bismol. For 10 points, which pnictogen with atomic number 83 has a name deriving from the Arabic for "like antimony"?

ANSWER: Bismuth

<DJ>

9. **Dasun Shanaka took his second test wicket by dismissing a man with this name, before conceding a test run. This is the surname of the oldest non-goalie to debut for England's men's football team. A sportsman with this name was sponsored for £1,000 a year by (*)** Brylcreem in a deal negotiated by the first sports agent, Bagenal Harvey. One sportsman with this name seriously injured his knee against Sid Hobbins of Charlton; that kneecap is now stored at the ground where he played county cricket alongside Bill Edrich. A man with this surname scored his only two test hundreds in consecutive innings against New Zealand, having replaced Andrew Strauss. For 10 points, name this surname shared by cricketers Nick and his grandfather Denis.

ANSWER: Compton

<DJ>

10. **A UNESCO world heritage site dedicated to mercury mining is found in Spain and this other country. Pletna boats are only found on a single lake in this country. A bridge in this country's capital contains statues of dragons which supposedly wag their tails if a virgin passes nearby. It's not Denmark, but this country's capital has a Tivoli park. This country's Upper Carniola region will host the World Rowing Championships in 2020 at Lake (*) Bled.** This country contains the smallest Adriatic coastline and (at Mount Triglav) the highest point in the Julian Alps. For 10 points, name this European country whose capital is Ljubljana.

ANSWER: Republic of Slovenia [do not accept "Yugoslavia"]

<AH>

11. **The Polymath5 project was set up in 2010 to tackle a "discrepancy problem" named for this person; a proof was later published in 2016 by Terence Tao. Szemerédi's theorem is a weak form of a conjecture named for this person, that states that if the sum of the reciprocals of a set of positive integers diverges then it contains arbitrarily long arithmetic progressions. This person said of the (*) Collatz conjecture that "mathematics may not be ready for such problems."** This person, who is the subject of Paul Hoffman's biography *The Man Who Loved Only Numbers*, wrote over 1500 papers with over 500 co-authors, inspiring a number measuring so-called "collaborative distance" from this mathematician. For 10 points, name this eccentric, and extremely prolific, Hungarian mathematician.

ANSWER: Paul Erdős [AIR-dish] [or Erdős Pál]

<JE>

12. A work with this title describes a dream in which Homer's soul was reincarnated into a peacock. That work is known for its heavy-handed use of alliteration, including an entire line filled with words starting with "m" and another with "t". Another work with this title cites several historians in debating whether Agrippina committed incest, and starts "at the beginning, Rome was ruled by kings". A work with this title was the first Latin poem to be written in dactylic hexameter; that is the most significant known work by (*) Ennius. This is the title of a work spanning the Roman emperors from Tiberius to Nero, written by Tacitus. For 10 points, name these historiographical works, titled for their year-by-year structure.

ANSWER: Annals [or Annales]

<AH>

13. As well as translating it into French, Pierre Desfontaines wrote a sequel to this work featuring the protagonist's son Jean. When this work's protagonist meets an Emperor, he agrees not to make him step on a crucifix, and that protagonist attends an academy where he learns how to mix paint by smell and extract sunlight from cucumbers, and "projectors" show him how to turn shit into food. That protagonist of this novel earlier fled in a boat with sails of human skin to avoid a sentence of blinding for (*) urinating in public to put out a palace fire. A conflict between the Little and Big-Endians in Blefuscu, Yahoos and talking horses called Houyhnhnms [HWEE-nums] feature in, for 10 points, which satire in which the eponymous ship's doctor visits such lands as Laputa and Lilliput?

ANSWER: Gulliver's Travels, or *Travels into Several Remote Nations of the World. In Four Parts. By Lemuel Gulliver, First a Surgeon, and then a Captain of Several Ships*

<EL>

14. An institution was founded at this place after Aubert of Avranches was visited by an archangel, who put his finger through his skull to convince him. One work says that it was appropriate that William of Saint-Pair, who wrote a history of this place, was based here as he also wrote *chansons de geste*, and this place was named for a warlike person. Robert Torgini headed an institution here and expanded the (*) *Gesta Normanorum Ducum*. A monograph by Henry Adams compares this places to Chartres. The Bayeux Tapestry depicts a battle between Conrad II of Rennes and Harold Godwinson here, where Harold saves two knights stuck in the sand. An institution here was rewarded for its support for William I with an island in Penzance where they founded a similar island priory. For 10 points, name this island, home to a monastery in Normandy.

ANSWER: Mont-Saint-Michel [do not accept or prompt on 'St Michael's Mount']

<DJ>

15. Troops from this country allied with the US's IV Corps to winkle out German defenders at the Battle of Monte Castello. A joke about the unlikeliness of this country participating in WW2 led to its expeditionary force adopting a cigar-smoking snake as its insignia. After the Japanese capture of Malaya, impoverished people from Cear  were drafted to work as (*) "rubber soldiers" in this country. Eurico Gaspar Dutra won this country's 1945 election, which saw the birth of its Second Republic. This country's First Lady Darci organized a 1940 concert here by a singer who was accused of being too Americanized, Carmen Miranda.

For 10 points, name this country, whose authoritarian Estado Novo under Getulio Vargas helped the Allied war effort in the South Atlantic.

ANSWER: **Brazil**

<DJ>

16. **When commenting on potential competition for Christmas number 1, this artist claimed that Gregory Porter's *The Christmas Song* "sounds like Michael Bubbly". In one song by this artist, they suggested that "you have to have the balance...Barclays balance" together with MC Quakez. Fiona Onasanya quoted a song by this artist in Parliament, whose violent lyrics have included a threat to take someone's (*) Twix by force and the words "smoke trees", referencing drug culture. The most famous song by this alias of Michael Dapaah repeatedly claims that "the ting go skrrrrrrrrrra" and begins with a demonstration of "quick maths". For 10 points, name this fictional rapper who went viral in 2017 with "Man's Not Hot".**

ANSWER: **Big Shaq** [or **Roadman Shaq**; prompt on **Shaq** alone; accept Michael **Dapaah** before mention]

<AH>

17. **"Spur and groove" formations in these ecosystems are typically biodiversity hotspots. *Diadema antillarum* is often cited as a keystone herbivore in these ecosystems and may be introduced artificially to reduce the risk of "smothering". A survey undertaken by the Catlin Group provides an extensive photographic record to monitor the health of these ecosystems. In a book on "The structure and distribution" of these ecosystems, Darwin posited his namesake (*) paradox of how these ecosystems can flourish in such nutrient-poor conditions. The expulsion of mutualistic Zooxanthellae from these ecosystems due to high temperatures or acidity causes them to lose their vibrant colours in a process known as "bleaching". For 10 points, name these ecosystems, an example of which is the "Great Barrier" off the coast of Queensland.**

ANSWER: **Coral reefs** [prompt on partial]

<GC>

18. **In one series, this character is sent to the Nether-Realm for inadvertently starting a zombie apocalypse by resurrecting a dog, while in another, this character immolates the angel Jerathmiel and accidentally releases the demon Batibat by solving the Acheron Configuration. This character's cousin was imprisoned for trying to blow up the Vatican and later for allegedly murdering the (*) Anti-Pope, while another of their associates was punished for trying to take over the world by being turned into a cat. For 10 points, name this Archie Comics and TV character, portrayed by Kiernan Shipka in a series titled for their *Chilling Adventures*, and by Melissa Joan Hart in another titled for them as a *Teenage Witch*.**

ANSWER: **Sabrina** Spellman [accept **Sabrina the Teenage Witch**, prompt on 'Spellman' alone]

<EL>

19. **Peter-Klaus Schuster curated a collection of interpretations of this artwork, which have included Karl Giehlow's hieroglyphic reading and Erwin Panofsky's comparison to an allegory by Gregor Reisch. In the background of this work a coastal city can be seen through a ladder, next to a sketching putto sat on a chipped (*) grindstone behind a figure**

wearing a wreath of watercress. That figure in this painting sits among stray nails and tools, with a ring of keys dangling from their belt. A bat can be seen in the top left of this work, carrying the title of this work on a little banner. An hourglass, a sundial, a rainbow, a comet, a sphere and a magic square feature in, for 10 points, this 1514 work full of symbols of alchemy, an engraving by Dürer titled for extreme sadness.

ANSWER: **Melencolia I** [accept **Melancholy**]

<EW>

20. **The first record of this language's orthography dates from 1272, although this language's distinctive diacritics may have been added later. Diacritics in this language differentiate between vocalic and consonantal pronunciations of the same letter, and letters that would be silent in the language this language's script is derived from are used as vowels. Different diacritics on the first letter of this language's alphabet can lead to it being referred to as (*) komets, pasekh, or shtumer, the latter of which is not pronounced. This language's phonology is similar to that of German, but does not devoice word-final stops. For 10 points, name this language, containing elements of High German, Aramaic, and Hebrew, the historical cultural language of Ashkenazi Jews.**

ANSWER: **Yiddish** [accept **Yidish-Taitsh**, **Judeo-German**, **loshn-ashknaz**, or **mame-loshn**, do **not** accept or prompt on 'Hebrew']

<EL>

Bonuses

1. Overdominance is an extreme example of this phenomenon, and it can be thought of as the opposite of inbreeding depression. For 10 points each:

[10] Name this phenomenon in which possessing different alleles for a gene confers greater fitness.

ANSWER: **Heterozygote advantage** [or **heterosis**, prompt on **hybrid vigour**]

[10] A common example of heterozygote advantage is that carriers of a single allele for this disease are somewhat protected from malaria. In this disease, red blood cells are misshapen and can clog small vessels causing painful "crises".

ANSWER: **Sickle cell** anaemia

[10] This similar phenomenon occurs when two individuals with the same mutant phenotype interbreed to produce wild phenotype offspring. This occurs because they are homozygous recessive for *different* genes, each responsible for the mutant phenotype.

ANSWER: **Complementation**

<GC>

2. This band is known for mashups such as combining Beethoven's Fifth Symphony with OneRepublic's "Secrets", and a rock version of Rachmaninoff's Prelude in C sharp minor. For 10 points each:

[10] Name this classical new-age group fronted by Jon Schmidt and Steven Sharp Nelson, and partially named for the instrument which all members of the group can play.

ANSWER: The **Piano Guys**

[10] One of the Piano Guys' tunes is a mashup of Gabriel Fauré's [FOR-ray] *Pavane* with this David Guetta song featuring Sia, named for a transition metal with atomic number 22.

ANSWER: "**Titanium**"

[10] The Piano Guys also combined Mozart's *Lacrimosa* with a song in which this artist is "wondering if after all these years you'd like to meet", but laments that "when I call you never seem to be home".

ANSWER: **Adele** [or Adele Laurie Blue **Adkins**, prompt on 'Hello']

<AH>

3. After reading Lydia Maria Child's *Letters from New York*, this poet excitedly said "This then is a book! And there are more of them!" For 10 points each:

[10] Name this poet, who named their dog Carlo after a dog in *Jane Eyre*. Much like their poetry, this poet's letters to their mentor Thomas Wentworth Higginson contained a lot of dashes.

ANSWER: Emily Elizabeth **Dickinson**

[10] Another early influence on Dickinson was this poet. Dickinson's brother smuggled this poet's work *Kavanagh* into the house, in case their father disapproved. This poet is better known for *The Song of Hiawatha*.

ANSWER: Henry Wadsworth **Longfellow**

[10] Dickinson sent over 300 letters to this sister-in-law of hers, and told her that "With the exception of Shakespeare, you have told me of more knowledge than any one living." Many scholars interpret Dickinson's relationship with this person as romantic.

ANSWER: Susan **Gilbert** [or **Susan** Dickinson; prompt on **Dickinson** alone]

<AH>

4. Time for some refreshing bonuses on sparkling water! For 10 points each:

[10] Probably the most famous brand of naturally carbonated water, this French brand bottles its water at a spring in Vergèze, although the gas is removed and later reintroduced.

ANSWER: **Perrier**

[10] One of Perrier's main competitors in the US, this "anti-Perrier" brand of sparkling water offers flavours including 'Cran-raspberry', blackberry-cucumber and coconut-cola.

ANSWER: **LaCroix** ([la-CROY], because Americans)

[10] Before we had name brands, we had to make our own, using equipment like this Victorian invention, which forced carbon dioxide from one globe through a globe of water, and often exploded.

ANSWER: **Gasogene** [accept **gazogene** or **seltzogene**]

<EL>

5. Answer the following about the oldest surviving complaint letter in the world, for 10 points each:

[10] The complaint tablet was written by Nanni to this merchant. This merchant allegedly offered low-quality copper ingots, and said "if you do not want to take them, go away!"

ANSWER: **Ea-Nasir**

[10] Nanni admitted that he owed Ea-Nasir "one trifling *mina* of" this substance also famously produced at Laurium.

ANSWER: **silver**

[10] The complaint tablet was written in Akkadian, a language which uses this script. This script derives its name from the wedge-shaped symbols it uses.

ANSWER: **cuneiform**

<AH>

6. Chef Anthony Bourdain suggested that the best form of this meat is found in Cebu [SAY-boo].

For 10 points each:

[10] Name this meat, which is eaten whole roasted in many Spanish-speaking countries as *lechón*. Its Iberian variety is valued particularly highly.

ANSWER: **pork** [accept **ham** or **pig** meat]

[10] As well as *lechón* in Cebu, this country's cuisine includes a basic rice porridge called *lugao*. This country's culinary concept of counterpoint leads to delicious combinations such as green mangoes dipped in salt.

ANSWER: **Philippines**

[10] In the Philippines, this term refers to an indigenous stewing method using vinegar. In other Spanish-speaking countries, this term describes marinating raw meat in a paprika-based sauce to preserve it.

ANSWER: **adobo** or **adobar**

<AH>

7. In one story, this figure shoots an arrow into the air to find a wife, and it is caught by a frog who just so happens to be the transformed princess Vasilisa the Wise. For 10 points each:

[10] Name this stock character of Russian folklore, the youngest of three sons and husband of Marya Morevna, often depicted wielding the possibly-magical Sword Kladenets.

ANSWER: **Ivan Tsarevich** [prompt on partial]

[10] Stories generally pit Ivan against this 'Deathless' evil wizard, who escapes Marya Morevna's dungeon after tricking Ivan into giving him twelve buckets of water. He hides his soul in an egg.

ANSWER: **Koshchei**

[10] Ivan gets killed a lot: for example, he was sliced up by his brothers and revived during his quest for this mythical bird, commonly seen throughout Slavic folklore and the subject of a Stravinsky ballet.

ANSWER: The **Firebird** [accept **zhar-ptitsa**]

<EL>

8. This person's last meal was porridge with barley and flax but no meat or fruit, suggesting that they died during winter or spring. For 10 points each:

[10] Name this extremely detailed 4th-century BC specimen kept in the Silkeborg Museum alongside Elling Woman. It is thought that this person was a human sacrifice killed by hanging.

ANSWER: **Tollund Man**

[10] Tollund Man and Elling Woman are Danish examples of bodies found in these wetlands. The anaerobic conditions in these places preserve natural specimens extraordinarily well.

ANSWER: peat **bog** [accept **bog bodies**]

[10] The Danish archaeologist P.V. Glob wrote thorough investigations of European bog people, observing that several had their hair in this style named for a tribe in Tacitus' *Germania*.

ANSWER: **Suebian knot** [or **Suebenknoten**]

<EW>

9. The thing with Linux is you have to learn all those terminal commands. Here are some questions about them, for 10 points each:

[10] This two-letter command, also known as `chdir` [chuh-derr], is used to change the working directory. This command has the same name in DOS and when used without an argument will usually default to the user's home directory.

ANSWER: **cd**

[10] This four-letter command is usually seen as a prefix to other commands, and is used to run other programs that require elevated security privileges, by default the superuser, from which this command gets its name.

ANSWER: **sudo**

[10] This five-letter command does the equivalent of opening a file, saving it, and closing it without altering any of the file's contents. It can also be used to create files if the filename specified does not exist.

ANSWER: **touch**

<BB>

10. This poet was stripped of their royal title after they made the diplomatic error of correcting one of King Rama III's poems. For 10 points each:

[10] Name this Thai royal epic poet, the author of the *Phra Aphai Mani* saga, whose mercenary and pirate characters are often considered a statement against European colonisation.

ANSWER: **Sunthorn Phu** [or **Phra Sunthonwohan**]

[10] *Phra Aphai Mani* is written in verse units of this number of lines. In Ancient Greek poetry, which significantly influenced Sunthorn Phu, this many lines made up an "elegiac" unit of verse.

ANSWER: **two** [accept (elegiac) **couplets**]

[10] Another Thai national epic was the *Ramakien*, which Rama II partially rewrote. It is derived from this major Sanskrit epic describing the legendary life of Rama.

ANSWER: **Ramayana**

<AH>

11. Despite this man attempting to thwart Gandhi's movement for equality for South Asian workers, he was still given a pair of sandals by his old adversary as a sign of respect. For 10 points each:

[10] Name this then Colonial Secretary of South Africa, who became South Africa's second prime minister. He advocated for the League of Nations at Versailles, and led his country into WW2.

ANSWER: Jan **Smuts**

[10] Despite early segregationist views, Smuts later advocated for the implementation of this 1946 report that proposed a relaxation on black South Africans entering urban centers.

ANSWER: **Fagan Commission** [or **Native Laws Commission**]

[10] The Fagan Commission's report was however soon undone by the Reunited National Party, who implemented this system of institutionalised racial segregation in public and private spaces.

ANSWER: **Apartheid**

<JC>

12. What's the best part about a sexy priest? He loves it when you kneel and call him Father. For 10 points each:

[10] Hot clergymen have had a moment in 2019, mainly due to a character played by Andrew Scott in the second series of this dark comedy created by and starring Phoebe Waller-Bridge.

ANSWER: **Fleabag**

[10] Foxy Father Peter features in several episodes of *Derry Girls*, first appearing when the gang claim to have seen the Virgin Mary cry 'tears' which were actually this substance.

ANSWER: **dog piss** [accept clear equivalents, prompt on urine etc]

[10] In this Steven Moffat sitcom, Jane dates celibate James, who Steve tells her is a priest - it turns out he's just a religious broadcaster, and that her friend Susan had it off with him in college.

ANSWER: **Coupling**

<EW>

13. This architect's proposal for a modern art museum in Caracas was an inverted pyramid with no windows and a glass ceiling, balanced on the edge of a cliff. For 10 points each:

[10] This architect worked on the United Nations headquarters, and is best known for their design of the civic buildings of Brasília.

ANSWER: Oscar **Niemeyer** (or Oscar Ribeiro de Almeida **Niemeyer** Soares Filho, if you want)

[10] Niemeyer's Cathedral of Brasília is built in this shape. Other structures built in the shape of this ruled surface include Vladimir Shukov's eponymous tower.

ANSWER: **Hyperboloid** of one sheet (or **hyperboloid** structure)

[10] The Palácio da Alvorada and the Palácio do Planalto, designed by Niemeyer for the President of Brazil, both incorporate these water features into their architecture.

ANSWER: **Reflecting pools** (Or **reflection pools**. Prompt on partial)

<MB>

14. Be it a caveman giving a stick to receive berries or a child in France sending his prize Charmander to a girl in South Korea, humans have always been trading with each other. For 10 points each:

[10] This term is widely used to refer to the network of trade routes that connected East Asia to Europe, the Arabian Peninsula and parts of Africa and is named for a widely traded textile.

ANSWER: The **Silk Road** [accept "**Silk Route**"; prompt on/accept "**Seidenstrasse**" or "**Seidenstrassen**"; do not accept "Jade Road", which only refers to part of the network]

[10] Ferdinand, a Wollaston medal winner with this surname, coined the term Silk Road in German. His nephew with this surname may have been killed by Cedric Popkin.

ANSWER: von **Richthofen**

[10] The Northern route of the Silk Road began at this ancient Chinese capital before the rise of Luoyang. Established by Liu Bang, Qin Shi Huang Di's tomb was built outside this city.

ANSWER: **Chang'an** [accept **Xian** or "**Xijing**", "**Daxing**", "**Fengyuan**", "**Anxi**" or "**Jingzhao**", all names the city has had; prompt on "**Feng**" alone; do not accept or prompt on "Fenghao"]

[10]:

<RJ>

15. For 10 points each, answer the following on the tattoos of elusive chanteuse Ariana Grande:

[10] One of Ariana's recent additions is a tattoo of this insect behind her ear, to commemorate the lives lost at the Manchester Arena bombing. This insect is a symbol of Manchester.

ANSWER: worker **bee**

[10] In January 2019, Grande tattooed the title of this Favourite Things-inspired single in Japanese on her palm, but omitted some characters because "it hurt like fuck". The resulting tattoo reads as "barbecue grill".

ANSWER: '**Seven Rings**'

[10] Among the matching tattoos Grande got with Pete Davidson is an abbreviation of this 6-word catchphrase. In the video for "thank u, next", Gabi deMartino claims that Ariana said this to her, so she punched herself in the face.

ANSWER: **honest to god knock me out** [prompt on partial, only accept exact phrase; also prompt on a player spelling "h2gkmo"]

<EW>

16. A rite named for this substance is the second of the three Sacraments of Initiation, and it is traditionally made during Holy Week and consecrated at a namesake Mass. For 10 points each:

[10] Name this consecrated oil, used to anoint believers immediately following baptism in most Eastern Christian churches.

ANSWER: **Chrism** [accept **myrrh** or **myron**]

[10] Chrism is consecrated on Holy Thursday, during a Divine Liturgy in which the standard Cherubic hymn is replaced with '*At your mystical supper*', another example of this kind of short Greek hymn.

ANSWER: **troparion** [accept **troparia**, prompt on 'anti-cherubikon']

[10] The flames used in the preparation of chrism are traditionally fueled by old or damaged examples of these pieces of religious art widely used in Orthodox churches.

ANSWER: **icons**

<EL>

17. In one episode from this novel, a musician's heart is smuggled out of Paris under his sister's skirt and driven back to his home country to be buried. For 10 points each:

[10] Name this novel of 116 vignettes like Philip Verheyen discovering the Achilles tendon, thoughts on sanitary pads and air sickness bags, and letters to Franz I from Josefina Soliman.

ANSWER: **Flights** [or **Bieguni**]

[10] This author won the Man Booker International Prize for *Flights*. Her other works include *Drive Your Plow Over the Bones of the Dead* and the Jewish historical epic *The Books of Jacob*.

ANSWER: Olga **Tokarczuk**

[10] Tokarczuk is one of this country's most talked about writers. She faced a hate campaign for using *The Books of Jacob* to criticise Henryk Sienkiewicz, another author from this country.

ANSWER: **Poland**

<EW>

18. For 10 points each, answer the following about Louis Leakey's trio of anthropological protegés, the "Trimates":

[10] Probably the least well-known "Trimate" is this Lithuanian-Canadian scientist, whose pioneering work on orangutans has created the longest ever study of a single species.

ANSWER: Biruté **Galdikas**

[10] The second “Trimate” was Dian Fossey, who wrote *Gorillas in the Mist* about her life studying gorillas at this research centre in Rwanda’s Virunga Mountains.

ANSWER: **Karisoke** Research Centre

[10] After phoning Leakey to discuss animals, this final Trimate was funded by him to get a PhD at Cambridge without an undergraduate degree, and then to study chimps in Tanzania.

ANSWER: Jane **Goodall**

<EW>

19. Three bonuses on Max Born’s Thermodynamic Square. For 10 points each:

[10] The internal energy of a system is often expressed in terms of these pairs of variables. Examples include temperature and entropy, or stress and strain.

ANSWER: **conjugate** variables

[10] This variable is the conjugate of pressure, and is hence measured in Joules per Pascal. In an isochoric process, this variable is held constant.

ANSWER: **volume**

[10] Conjugate variables appear on the corners of the Thermodynamic Square, and these quantities appear on the sides. Examples include enthalpy or the Gibbs free energy, and differentiating them yields the equations of state.

ANSWER: thermodynamic **potentials**

<MB>

20. Julian Rushton has suggested that the solution to this problem must satisfy five criteria including “a dark saying” being involved and that the theme is “not played” but “well known”. For 10 points each:

[10] Name this puzzle that has vexed musicologists for over a century. Proposed solutions include a countermelody of *Auld Lang Syne*, which was dismissed by the composer himself. A descriptive answer is acceptable.

ANSWER: **What is the enigma from the *Enigma Variations*?** [accept all reasonable attempts at an answer such that reference the unsolved puzzle of the *Enigma Variations*]

[10] This movement of the *Enigma Variations* borrows its theme from the second movement of Beethoven’s eighth piano sonata and is named for an Old Testament hunter.

ANSWER: **Nimrod**

[10] Nimrod was dedicated to this person, Elgar’s close friend and publisher.

ANSWER: Augustus **Jaeger**

<GC>

Tiebreaker

Scott & Linton constructed numerous ships here, including the *Cutty Sark*. Six Chinese geese were traditionally used to guard the complex where Ballantine’s Whisky was made in this town. Overtoun House in this town attracted notoriety as numerous dogs jumped to their deaths from a bridge on the property. On his marriage, (*) Prince Harry was awarded the title of Earl of this town. Because there was no goal-difference rule in force at the time, a team from this town jointly won the first Scottish football league title. Located at the confluence of the Leven and the Clyde, for 10 points, name this county town of Dumbartonshire.

ANSWER: **Dumbarton**

<DJ>