

As Academic As I Can Possibly Be

In which I attempt to write twenty tossups and bonuses that, for once, won't lay waste to someone's mind. There are some *vaguely* trash questions, but they've gotten dolled up to be accepted in respectable society. These should also all be, broadly, quite easy.

Making use of some aggressive grouping, the question breakdown is roughly as follows:

Topic	Toss-Ups	Bonuses	Total
Maths	10% (2)	5% (1)	7.5% (3)
Natural Sciences	20% (4)	25% (5)	22.5% (9)
Social Sciences	40% (8)	55% (11)	47.5% (19)
Miscellaneous	30% (6)	15% (3)	22.5% (9)

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Toss Ups

1. **This object has been observed as far back as the Babylonians, and cuneiform tablets indicate that they calculated a fairly close 59 year period for this object to return to the same elliptical longitude for a second time, an event also observed in astrology. The Cassini–Huygens mission, named for two astronomers who extensively studied this body, observed a large storm on its southern pole with a hot spot in the middle. This celestial body's northern pole is home to a characteristic hexagon, which was first observed in images taken during the Voyager mission; that mission was launched on rockets named for this object's largest moon. Other objects which orbit this body include Rhea (ree-ah), Janus and Enceladus (en-sell-ah-dus). A family of rockets named for this planet was developed by a team led by Werner Vaun Brown over the course of the 1960s; the fifth in that series was used in the moon landing. For ten points, name this ringed planet, the sixth farthest from Earth's sun and second largest in the solar system, after Jupiter.**

ANSWER: Saturn

<ND - Astronomy>

2. **Representatives for Venezuela and Great Britain engaged in this activity during the late 19th century, the outcome of which was later settled in Paris. The outcomes of this activity are recognized and enforced in over 170 countries thanks to the United Nations'**

New York Convention. Following their 2023 data breach, genomics company 23AndMe updated their terms of service to enforce this form of alternative dispute resolution. Waving one's right to a class action lawsuit often involves committing to this process instead, which for ten points, has binding and non-binding forms.

ANSWER: Arbitration

<ND - Law>

3. This state was the site of the largest industrial spill in United States history, in which 4.2 million cubic metres of coal slurry broke through a dam and flooded into the Clinch and Emory rivers. Many workers hired to clean up this spill went on to develop leukaemia, possibly due to coal ash's radioactive nature. This state is no stranger to nuclear radiation, as it is also the home of the Oak Ridge National Laboratory. It has also been the site of many United States civil rights events. Oak Ridge became the first school to desegregate following Brown v. Board of Education, and striking sanitation workers bore witness to Martin Luther King Jr.'s "I've Been to the Mountaintop" speech, shortly before his assassination. It's not Mississippi, but, for ten points, Alabama's got her so upset, and this state causes Nina Simone to lose her rest, in the protest anthem Mississippi Goddamn.

ANSWER: Tennessee

<ND - American Geography>

4. The product of this action titles an unfinished short story by Franz Kafka. This action is often performed towards the end of a political administration, and involves moving employees away from appointed positions to make them harder to remove. Shoco are American animals which occupy places created by this action, which their other name makes explicit reference to. Other birds which display this behaviour include shearwaters, little penguins and puffins. Animals which display this behaviour can be categorised into primary excavators and secondary inhabitants or nesters. For ten points, aardvarks, ants and termites all engage in what behaviour?

ANSWER: Burrowing (Accept wordier forms such as living in or making a burrow. Prompt on digging, tunnelling or other synonyms).

<ND - Biology>

5. [Note to players: Description acceptable] A numeric system which uses this concept was discussed by Donald Knuth in volume two of *The Art Of Computer Programming*. In that example, Knuth made use of factorials. APL's Encode function allows the user to convert between numeric systems which make use of these by accepting a vector as the argument for how a number should be represented. That function is also referred to as **Antibase. The Mad Hatter's hat has a price tag attached which uses this numeric system, as it**

was written before the decimalization of British currency. This numeric system can be found in everyday life too, as it is commonly used for expressions of time; for example, 60 minutes in (emphasise) one hour, 24 hours in (emphasise) one day, and 7 days in (emphasise) one week. For ten points, name this way of counting, which differs from the conventional approach of systems like decimal, octal, and binary by doing this to its bases.

ANSWER: **Mixed radix**. Accept descriptions such as **a number with multiple bases**. Prompt on **factorial** before it is mentioned by asking what the factorials were used as. Anti-prompt on descriptions by asking them to be more general.

<ND - Math>

6. This language follows a subject-verb-object sentence structure, and was first written in what were called Han or Confucian characters. A compound script which introduced new characters in addition to Chinese characters was developed in the eleventh century, and saw most of its use in higher society, where it was used for artistic works. One such example is the epic poem *The Tale of Kiều* (Ki-ou), which became one of this language's most famous classical works. For ten points, name this monosyllabic language, which includes loanwords such as "ca phe" (ka-fay) due to its country's historical occupation under French Indochina.

ANSWER: **Vietnamese**

<ND - Language>

7. This type of function is symmetrical across the y-axis, and can be found along the intersection of the surface of a cone and a plane which runs parallel to the cone's opposite side, making it a conic section. In astronomy, these conic sections appear as Kepler orbits, with this shape having an eccentricity of one. Flights which take this path can be used to achieve weightlessness, but also induce nausea in many of their passengers. This shape is invaluable in the design of communications technologies such as antennas, due to its ability to capture sound and light waves and focus them on one point along its vertex. For ten points, name this type of curve, which can be represented on a graph using a quadratic polynomial such as x^2 .

ANSWER: **Parabola** (Accept **parabolic**)

<ND - Math>

8. This organisation originated as the BOI, and was first charged with performing investigations relating to the recently introduced Mann act, and went through a variety of name changes before landing on its current name in 1935. Despite it being an agency of the United State's Department of Justice, many associates of this organisation have run into legal trouble. Gordon Thomas Roe worked as a paid informant to infiltrate the Klu Klux Klan and took part in many violent activities, including the murder of Viola Liuzzo, but was later given total

immunity. This was done under the Counter Intelligence Program. That program began in 1957, the same year that G. Gordon Liddy began working at this organisation, before his time as Nixon's chief burglar. All of these events occurred during the lengthy tenure of J. Edgar Hoover, the first director of, for ten points, this domestic intelligence agency of the United States.

ANSWER: **FBI**

<ND - American History>

9. Naturally occurring forms of this material can be found in environments subject to high heat, such as the aftermath of volcanic eruptions or lightning strikes. Manufacturing an unstable form of this material can cause weeping and later, crizzling, which can be induced by excess moisture. Metal comes can be used to hold this material in place, and while it is conventionally colourless, metals can also be used to introduce colour to this material during the manufacturing process, such as copper for green and gold for red. Transparent starch-based noodles named for this material are common in Asian cuisine, and sugar can be used to create a safer alternative to this material in prop making. For ten points, name this material, whose older examples have thickened bottom sections, leading to urban myths that it is actually a liquid.

ANSWER: **Glass** (Anti-prompt on any specific type of glass.)

<ND - Material Science>

10. This organisation was founded in America at the turn of the 19th century by John H. Nicholson and Samuel E. Hill, and began its signature project in 1908. This international organisation is named for a biblical figure who features in the book of Judges, where he is referred to as Jerubbaal. That man used clay jars with torches within them to defeat the Midianites, which is reflected in this organisation's logo. This evangelical organisation is not a church, but is a religious charity which seeks to spread Christian messages, and their signature item comes in a variety of different colours depending on where it will be distributed. For ten points, name this organisation, which has distributed over two billion bibles to active duty troops, hospital patients, the incarcerated, pedestrians and of course, travellers checking into hotel rooms.

ANSWER: **Gideons** International (Prompt on Gideon)

<ND - Religion>

11. In 1963, two LAPD officers were kidnapped to a field where this plant was grown. This plant likely originates from Asia, and an architectural feature named for it is prominent in Mughal architecture. It is principally composed of water, with few nutrients, and contains a chemical which affects the lacrimal system; the presence of this chemical can be reduced using soil with lower sulphur content. In 1955, two traders committed widespread

price manipulation using futures contracts for these vegetables, driving many farmers into bankruptcy; this led to an act specifically banning the trading of these vegetables' futures. Glass bottles named for these alliums share their name with both a Beatles song and, for ten points, a 2022 Rian Johnson film which saw Daniel Craig reprise his role as detective Benoit Blanc.

ANSWER: Onion

<ND - Biology>

12. UNESCO's List of Intangible Cultural Heritage Practices in Need of Urgent Safeguarding includes many of these, such as the Biyelgee from Mongolia, the Saman from the Gayo people, and the Mapiko from the Makonde people. Cats are said to perform this action upon consuming fish contaminated with mercury, and ergot contamination has been proposed as an explanation for so-called plagues which were said to cause this activity. Movement disorders known as chorea take their name from the Greek word for this activity, as does a communal form of this activity practised by ancient Greeks in a circle, along with music. Specialised articles of clothing worn when performing this activity include various types of footwear, such as pointe, tap, and jazz shoes. For ten points, contemporary, ballroom, and ballet are types of this performance art.

ANSWER: Dance (Accept variants such as dances or dancing)

<ND - Miscellaneous>

13. Leonard Nimoy once attracted controversy by publishing a book of photography which contained semi-nude women wearing these. That book was entitled *Shekhina* (she-chee-na). Other appearances of women wearing these include members of the group **Women of the Wall, who campaign to give women the right to pray at the Western Wall. However, it is broadly uncommon. This is because women are exempted from time-bound mitzvot observed in Orthodox Judaism, such as the Shema, which mentions these devices; women and those unadorned with these devices should still say the Shema. They're not mezuzot, but for ten points, these accessories containing verses from the Torah are bound to worshippers' bodies with leather straps for morning and evening prayers.**

ANSWER: Tefillin (Accept tefillah. Accept phylactery. Prompt on descriptions such as "a box containing the Torah strapped to one's body" before the last sentence by asking for the specific term.)

<ND - Religion>

14. Actress Ann McKim used this last name while appearing in 1930s hits such as *Scarface*, and specified that "the D remained silent". A composer with this last name composed his *Serenade for Wind Instruments* after hearing Mozart's, and dedicated it to Louis Ehlert, as Ehlert had promoted that composer's *Slavonic Dances*. A technique for

categorising tropical storms which feature high winds bears this name, as does a professional hockey player who played for the Hurricanes; that player got his start with the České Budějovice (Chess-kay Boo-day-yo-vitzay) EHL club. In 1936, an American psychologist by this name co-authored a book along with William Dealey and others titled *Typewriting Behavior*, which would introduce their proposal for a more efficient layout. For ten points, A-O-E-U-I-D-H-T-N-S are the letters on the home row of a keyboard layout which goes by this name.

ANSWER: **Dvorak** (Be generous with pronunciation, we just butchered some Czech in this question)

<ND - Miscellaneous>

15. While participants are not often completely in this state, Hadaka Matsuri are named for this state of being. The title of a 1969 novel intended to poke fun of what a group of journalists saw as a low-brow literary culture references being in this state; the cover of that novel used a photograph allegedly obtained from a magazine devoted to a subculture about being in this state. Members of that subculture are known to refer to non-practitioners as textiles, and will often gather in designated areas, which are popularly referred to as colonies. This is mainly due to the ubiquity of public decency laws, which for ten points, forbid people from being in this state, which is key to activities such as streaking.

ANSWER: **Nudity**

<ND - Miscellaneous>

16. This fruit names one of the most sought after pieces of US currency, a \$1000 note distributed by the treasury when purchasing silver in the 1890s. The Papaya Ringspot Virus is known to affect these plants, in addition to its namesake fruit. A man and woman referred to by this fruit name two films, one from 1970 and the other from 1996, both of which deal with social issues. The former of those films shares the majority of its name with a jazz standard written by Herbie Hancock. Preserving the rinds of these fruits in sugar water is a popular dish in the Southern United States, and these fruits grown into cubes are popular novelty gifts in Japan. A symbol of independence, the Palestinian flag shares its colours with, for ten points, this red fleshed fruit, with black seeds and a green and white rind.

ANSWER: **Watermelon**

<ND - Miscellaneous>

17. In his essay *Of Studies*, Francis Bacon stated that performing this action makes an exact man. The relativity hypothesis of these systems proposed by Hye K. Pae argues that their shapes affect the way their users think, and the use of these systems has been argued as an example of an extended mind. Species of lichen from the *Graphidaceae* (graphi-day-shay) family resemble the products of these systems, in an asemic manner, and

asemic forms of these systems can be found in intentionally obscure works, such as the *Codex Seraphinus*, as well as the art of Tim Gaze. Specific rooms or sheds for this purpose were employed by people such as Roald Dahl and J.D Salinger, and Virginia Woolfe stated that a woman must have a room and money to perform this action. For ten points, these systems can be divided into such categories as logographies, syllabaries, and alphabets, and are used to represent language.

ANSWER: **Writing**

<ND - Language>

18. The chief executioner of the state which contains this city was referred to by the title of “Electrician”, a position held until capital punishment was briefly banned in 1972, after which executions were carried out by lethal injection. In 1973, gravediggers in this city went on strike, an action also undertaken by trash collectors in this city’s most prominent sister city during the Winter of Discontent. This city’s sanitation service went on strike itself in 1968, and stayed at an impasse for nine days until the state governor, Norman Rockfeller, invoked a public health emergency. This allowed him to take control of the department and enforce a 400\$ pay raise, which was opposed by then-mayor John Lindsay. For ten points, in 2023, this city’s comedic job posting for a new Director of Rodent Migration went viral, with articles covering it in both this city’s *Times* and *Post*.

ANSWER: **New York City** (Accept **NYC**. Prompt on New York)

<ND - American History>

19. [Note to players: Description acceptable] This practice can be seen in many animals in nature, though the reasons for doing so can vary greatly between species. In animals, this practice can be divided into full and partial forms, and may be affected by factors such as brood size, the availability of a mate, and environmental stressors. Demeter is deceived into committing this action by Tantalus, as is the father in the Grimm fairy tale *The Juniper Tree*. This action is depicted in what is arguably the most notable of *The Black Paintings*; that painting depicts the Greek myth of Kronos taking this preemptive action to thwart a prophecy. In 1729, Jonathan Swift made a modest proposal that suggested impoverished Irish citizens sell their children for this purpose, to prevent them from being a burden on society. For ten points, in the German fairy tale Hansel and Gretel, a poor woodcutter’s children are sent out into the woods, where they encounter a witch who attempts to perform this action.

ANSWER: **Eating children** (Prompt on descriptions of cannibalism that do not mention children)

<ND - Miscellaneous>

20. **While versions of these systems have existed since the birth of multi-user computing networks in the 1960s, much of the development took place on ARPANET, including the creation of SMTP, which replaced FTP as the protocol used for sending these in the early 1970s.** SMTP is still the standard used today, with most providers using either POP3 or IMAP to pull these down for the user. Early standards restricted these to be purely text-based, but as the Internet grew, MIME types were introduced to support media such as images and videos. One by one pixel images are sometimes sent along with these to determine when they are accessed. Early relay servers for these communications were often open by default, but due to promotional companies using them to send massive amounts of traffic, this practice was dropped, and later made illegal in the United States under the CAN-SPAM act of 2003. For ten points, message submission agents work in conjunction with message transfer agents and a user's client to send these internet communications, which are provided by popular services such as Gmail.

ANSWER: **E-mail** (Accept **electronic mail**)

<ND - Computer Science>

Bonuses

1. Statues of animals are ubiquitous to all cultures, with some great examples from Asia. For ten points each,

[10] Statues of these animals are found flanking the entrances to buildings throughout Asia, including Angkor Wat and the Forbidden City.

ANSWER: **Lions**

[10] This feline is far less intimidating than a lion, and is often found in shop windows, where it is supposed to imbue a specific attribute.

ANSWER: **Maneki-neko** (Accept **Lucky cat**. Prompt on cat.)

[10] This wooden animal was first struck by Chinese buddhists, and has many different tales about its origin.

ANSWER: Wooden **Fish**

<ND - Asian Culture>

2. For ten points each, answer some questions about environmental pollutants.

[10] Walkerton, Ontario was the site of an outbreak of this microbe due to inadequate management. This became a scandal for Mike Harris' conservative government, which had previously slashed the Ministry of Environment's budget, resulting in fewer inspections.

ANSWER: **E. Coli**

[10] Rachel Carson's book *Silent Spring* was able to successfully turn public sentiment against this pesticide, which brought peregrine falcons to the brink of extinction.

ANSWER: (Accept **DDT**)

[10] DDT was used in World War 2 to protect soldiers from malaria; during that same conflict, this other infectious disease was experimented with as a potential bioweapon by Britain's Ministry of Defense on Gruinard (Grin-yerd) Island, rendering it uninhabitable.

ANSWER: **Anthrax**

<ND - Biology>

3. [Note to players: two answers required for each of these. Note to reader: If you're feeling generous, you may prompt on one correct and one incorrect answer a maximum of one time] Generally, you hope for a peaceful transfer of power for a given ruler's title. Sometimes, there's a more violent transfer, and sometimes, there's nothing? For ten points each, answer some questions about titles which have only ever been held by one person.

[10] This man's vast military conquest allowed him to hold many titles, including this one. This role, as the leader of a state which incorporated his previously conquered Subalpine and Cisalpine Republics, lasted only 3 years. In 1805, this state became a kingdom, with this man as king.

ANSWER: **Napoleon I** as **President of the Italian Republic** (Accept forms like **President of the Republic of Italy**. Prompt on Napoleon and President of Italy)

[10] 3 years after that, this man was born in Kentucky. He would go on to lead 11 states in attempting to secede from the United States of America, a mission which ultimately failed, and resulted in his imprisonment for 2 years.

ANSWER: **Jefferson Davis** as **President Of the Confederate States**

[10] Despite being referred to as the second, this woman was the only queen of many nations, including this Caribbean island, which voted to become a Republic of the Commonwealth one year before her death.

ANSWER: **Elizabeth II** as **Queen of Barbados**

<ND - History>

4. Speaking of death, for ten points, when speaking of death,

[10] This phrase was coined alongside "no man is an island", and expresses the sentiment that any death is a tragedy, as it is a loss to humankind.

ANSWER: Ask not **for whom the bell tolls**; it tolls for thee

[10] This phrase will often precede requests for donations to the deceased's preferred charity

ANSWER: **In lieu of flowers** (Accept equivalents such as **in place of flowers**)

[10] This phrase originates from the Anglican Book of Common Prayer, and is said as we commit this body to the ground.

ANSWER: Earth to earth, **ashes to ashes, dust to dust**

<ND - Miscellaneous>

5. For ten points each, name some novels with the title format of “x, or y”. For example, Quizbowl, or The World’s Funnest Way To Feel Pain.

[10] The second portion of this British novel’s title, a mythological allusion to man’s quest for knowledge, is probably the most notable example of this title format.

ANSWER: **Frankenstein; or, The Modern Prometheus**

[10] This novel takes place in the Netherlands, with its titular objects being the prize in a race entered by its titular character. It popularised the story of a boy plugging a hole in a dyke with his finger.

ANSWER: **Hans Brinker, or The Silver Skates**

[10] In addition to its second portion, modern spellings of this title will also sometimes exclude the hyphen which joins its titular character’s name. That character is pursued by the captain of the *Pequod*, in an obsessive quest for revenge.

ANSWER: **Moby-Dick; or, The Whale** (Accept **The Whale; or, Moby-Dick**, which was the first edition title in some locations.)

<ND - Literature>

6. For ten points each, answer some questions about border structures.

[10] This barrier stretched across much of France’s border, but did not reach areas such as the Ardennes, which proved to be its undoing [*Reader note: leave space after answer for pedantic corrections as to the true strategic value of the Maginot Line*].

ANSWER: **Maginot Line**

[10] The outcomes of World War 2 led to this “Anti-Fascist Protection Rampart”, which, following many protests, fell slightly earlier than intended, when the spokesperson for the Socialist Unity Party mistakenly stated that border-crossing restrictions would be ended immediately.

ANSWER: **Berlin Wall**

[10] In 1999, a wall segregating this ethnicity of people in the Czech Republic was torn down after international pressure from the European Union. Other examples of these walls still stand in Slovakia and Romania.

ANSWER: **Roma** (Accept **Romani**, prompt on gypsy)

<ND - History>

7. For ten points, answer some questions on rebellions by enslaved peoples.

[10] This country is the only one to successfully achieve independence following a slave rebellion, and as a reward, was burdened with an extreme debt by France due to lost resources.

ANSWER: **Haiti**

[10] This man led an 1831 slave rebellion in Virginia, the deadliest in United States history.

ANSWER: **Nat Turner**

[10] In 1839, slaves seized control of this ship, which was illegally transporting them around Cuba. It was then sailed up the coast of the United States, where it was intercepted, leading to a Supreme Court trial which found that they were free men.

ANSWER: La **Amistad**

<ND - American History>

8. Part of what makes Quizbowl enjoyable, I feel, is the mixing and synthesis of knowledge. This can be a highlight of other activities too. For ten points each, answer some questions on medleys:

[10] This Louis Prima song is one of his most popular, and tells the listener about the tragic state of his life due to his occupation as a paid dancer.

ANSWER: **Just a Gigolo/I Ain't Got Nobody**

[10] Nina Simone tells the audience about her lack of many things, including a man and family, in this empowering medley of two songs from the musical *Hair*.

ANSWER: **Ain't Got No, I Got Life**

[10] Musicals will often begin with one of these songs, which in musical theatre will frequently be a medley of the music to come.

ANSWER: **Overture**

<ND - Music>

9. Were I a cruel man, I would ask for the years as well. Fortunately, I am feeling merciful, so for ten points, give the locations of the described World's Fairs.

[10] This city's 1889 "Exposition Universelle" (ex-po-zee-seeon ou-nee-ver-sell) saw the construction of its most iconic structure, a wrought-iron tower some 330 metres tall.

ANSWER: **Paris**

[10] The first Ferris wheel was constructed to rival the Eiffel Tower for this city's world fair. The grounds were dubbed "The White City", due to the white paint which covered the neoclassical structures.

ANSWER: **Chicago**

[10] This city's Century of Progress fair was devoted to grand visions of the future, a welcome world of escapism during the heights of the Great Depression. Despite that economic downturn, it was wildly successful, and opened for a second time the following year.

ANSWER: **Chicago** (I may be a bit cruel after all.)

<ND - History>

10. For as long as there has been agriculture, there have been living things trying to eat it without our permission. For ten points each,

[10] Vehicles passing in and out of farms which grow these plants are thoroughly sanitised to prevent their crops being affected by Panama disease, which previously wrought havoc on this industry by driving the Gros Michel (grow me-shell) to the brink of extinction.

ANSWER: **Banana**

[10] With the exception of Antarctica, the Canadian province of Alberta is the only place on earth which lacks a significant population of these pests, due to aggressive action taken by their government.

ANSWER: **Rats**

[10] For places that aren't Alberta, these animals have proven to be quite effective at managing rodent populations, though they are known to at times leave the bodies of their kills for their owners to find.

ANSWER: **Cats**

<ND - Biology>

11. Some structures are simply so large that their mass cannot help but attract inaccurate statements. For ten points each,

[10] [*Note to players: description acceptable*] At the turn of the 19th century, reporters from Denver fabricated a story about the government of China accepting bids to perform this action.

ANSWER: Accept any answer indicating the **demolishment of the Great Wall of China**

[10] A common name for the wall refers to it as being this many li (lee) long, a length also associated with the Yangtze, and used in a similar manner to the Greek “myriad”. The wall is in truth much longer.

ANSWER: **Ten thousand**

[10] The grand size of the wall lends itself to this myth, which states that the wall is the only man made structure upon which this action can be performed.

ANSWER: Accept any answer indicating it can be **seen from space** or **the moon**.

<ND - China>

12. The colonial divisions of Africa have long left the region prone to instability. For ten points each,

[10] This republic briefly emerged as the result of a failed military coup and anti-Igbo sentiment, before being reabsorbed after a three year civil war. It was the benefactor of a massive airlift campaign, which was performed to combat the mass starvation inflicted by the Nigerian blockade.

ANSWER: Republic of **Biafra**

[10] This state was preceded by a British crown colony of a similar name. The only prime minister was Ian Smith, who saw it through from its unilateral declaration of independence in 1965, its subsequent bush war, and its final transformation into Zimbabwe.

ANSWER: Republic of **Rhodesia**

[10] This republic is the largest currently unrecognised state, and is arguably more stable than the country it is legally within. Though it does not yet legally recognise it, Ethiopia has recently signed a pact with this country to gain access to the Red Sea.

ANSWER: Republic of **Somaliland**

<ND - Geopolitics>

13. For ten points each, answer some questions on Myanmar.

[10] This man holds the record for the longest serving Secretary-General of the United Nations, a role he took on after the death of his predecessor, Dag Hammarskjöld, in a plane crash.

ANSWER: U **Thant**

[10] This woman briefly worked for the United Nations while U Thant was serving, but went on to follow in the footsteps of her father, serving as Myanmar's leader from 2011 to 2023, before being deposed in another coup by their military junta.

ANSWER: Daw Aung San **Suu Kyi**

[10] The names U Thant and Daw Aung San Suu Kyi both start with these grammatical features, which can vary by ethnic group.

ANSWER: **Honorifics**

<ND - Myanmar>

14. While many people enjoy wearing religious memorabilia, some would rather their religion be even closer to their skin. For ten points each,

[10] Particularly devoted followers of Christ may find themselves blessed with these markings, similar to Christ's own. St. Francis of Assisi is a particularly prominent example.

ANSWER: **Stigmata** (Prompt on descriptions by asking for the precise term)

[10] In Hinduism, this marking is used to adorn the location of the sixth chakra.

ANSWER: **Bindi**

[10] Both followers of Hinduism and Christianity apply this substance to their heads; in Hinduism, it is sometimes made from cow dung, whereas in Christianity, it will be made from last year's Palm Sunday fronds.

ANSWER: **Ash**

<ND - Religion>

15. While they are often compared to rodents such as rats and mice, these animals are actually much more closely related to moles. For ten points each,

[10] These animals make up the Soricidae family, and some of them are among the few animals known to echolocate.

ANSWER: **Shrew**

[10] Beyond echolocation, some species of shrew, such as the Northern short-tail, have developed this offensive adaptation, which is once again quite rare among mammals.

ANSWER: **Venomous**

[10] This shrew is just barely the smallest mammal by weight. They inhabit quite a few areas, but are named for a civilization which once occupied where they are most concentrated, in the Mediterranean.

ANSWER: **Etruscan** shrew

<ND - Biology>

16. I am writing this question instead of sleeping. Speaking of spirals, for ten points each,

[10] An Ulam spiral can be constructed by writing positive integers in a spiral on a square grid, and filling in squares which are this type of number. This produces many diagonal lines, which correspond to polynomials that are thought to generate many of these numbers.

ANSWER: **Prime** numbers

[10] A logarithmic spiral referred to by this adjective grows at a rate defined by a ratio which is also referred to by this adjective, and can be approximated with squares whose side lengths are equal to numbers in the Fibonacci sequence.

ANSWER: **Golden**

[10] Alright, here's your one trash question for the pack. One of Junji Ito's most popular works is this one, which follows Kirie after she moves to Kurouzu-cho, a town whose every facet seems to distort around the spiral.

ANSWER: **Uzumaki**

<ND - Math>

17. For ten points, answer some questions about bones found in the human upper section.

[10] This bone is the only one in the body to be unconnected to any other. It is uncommon for it to break naturally, and is indicative of death by hanging or strangulation.

ANSWER: **Hyoid**

[10] The mylohyoid muscle runs from the hyoid up to this bone, the largest in the facial skeleton, and one of the few moving bones in the human head.

ANSWER: **Mandible** (Prompt on jawbone or jaw)

[10] Another example of a moving bone is this one, which is named for its hammer-like shape. It is a part of the middle ear, and passes on sound vibrations from the eardrum.

ANSWER: **Malleus**

<ND - Anatomy>

18. For ten points each, answer some questions of different types of plastic.

[10] This plastic is the most commonly produced on earth, and comes in a variety of densities depending on its use.

ANSWER: **Polyethylene** (Accept **PE** and **Polythene**)

[10] This related plastic is also produced through polymerization, though rather than ethylene, ethylene glycol is combined with a particular acid to produce a transparent plastic stronger than regular polyethylene. Its recycling code is one, and it is one of the most commonly recycled plastics.

ANSWER: **Polyethylene terephthalate** (Accept **PET** and **PETE**)

[10] This other thermoplastic is not made using ethylene, but rather the next most complex alkene. It is otherwise quite similar to polyethylene, though it is slightly stronger.

ANSWER: **Polypropylene** (Accept **PP**)

<ND - Chemistry>

19. I hope that my position as despotic ruler of this trivia session has not been so brutal as to result in my ending up like any of the following men. For ten points each,

[10] Seven monarchists attempted to assassinate this emperor with their infernal machine, as his carriage made its way down the *rue Saint-Nicaise* (knee-says).

ANSWER: **Napoleon I**

[10] On the 20th of July, Claus von Stauffenberg brought a suitcase of explosives to The Wolf's Den in the hopes of assassinating this man.

ANSWER: Adolf **Hitler**

[10] John Hinckley Jr. attempted to assassinate this man in the hopes that it would make him an equal to the subject of his obsession, actress Jodie Foster.

ANSWER: Ronald **Reagan**

<ND - History>

20. I hope you've all enjoyed your time here today. As we close this pack, let's reflect not on the joys of the past, but on pains of the future. For ten points each,

[10] This year will see the occurrence of this bug, which occurs due to the fact that Unix time, the number of seconds since January 1st 1970, is stored as a 32-bit integer.

ANSWER: **2038** bug

[10] Due to it storing weeks as a 10-bit number, this system will also experience a year 2038 rollover when it reaches 3072 weeks from its 1980 epoch. It has previously done so in 2019 and 1999, and an update to its date format means the next one will not occur until 2137.

ANSWER: **GPS**

[10] 2239 will mark this year in the Hebrew calendar, by which point the Messiah should have arrived to deliver the world from all these silly computers.

ANSWER: **6000**

<ND - Miscellaneous>