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**Tossups**

1. Cells continuously flow through a "lagoon" containing these organisms in a continuous evolution technique named for them and developed by David Liu. To circumvent the instability of large plasmids with respect to recombination, the *cos* sequence derived from one of these organisms can be incorporated, allowing them to be manipulated via transduction. A high-throughput binding assay which involves the preparation of fusions with these organisms' (*) pIII [P-Three] coat proteins is their namesake "display". Esther Lederberg discovered one of these viruses which she named "Lambda", and they can reproduce by the lysogenic or lytic cycles. For 10 points, name these viruses which are named for their ability to infect bacteria.
ANSWER: **Bacteriophage**s (or **phage**s or **bacteria virus**es, accept **Lambda phage** or **T4 Phage**, prompt on <u>viruses</u>) <EM>

2. Masked men are shown suspending a shirtless youth upside down from his ankles in a relief called *The Death of the Demonstrator* that stands outside a musical centre in this city. A student in this city was killed by a plain-clothes police officer while protesting a state visit by Mohammad Reza Pahlavi. Another student activist who received brain damage after being shot in this city died a decade later while bathing in Aarhus. Members of the Playboy Club found (*) manoeuvring this city easy because their membership cards resembled passports. Peter Fechter was shot during an escape in this city. This city was home to Checkpoint Charlie. For 10 points, name this city whose dividing wall was the target of much protestation.
ANSWER: **Berlin** <JG>

3. Georg Lukács argued that a novel from this country was the first to accurately depict the "atheistic bourgeois intelligentsia". It is recommended to Franz Xaver Kappus that he read that novel by an author from this country in Rilke's *Letters to a Young Poet*. An author from this country was miffed that the response to his novel *The Quiet Girl* was negative when it was less complex than *Inception* or *Memento*. The collection *Anecdotes of* (*) *Destiny* by an author from this country includes a story in which the title French refugee spends her lottery winnings on a grand meal. This is the home country of the author of the memoir *Out of Africa*. For 10 points, name this home country of Peter Hoeg and Isak Dinesen.
ANSWER: **Denmark** <JG>

4. In one novel by this author Preacher Scroggs is decapitated in a brothel and his friends have sex with his head. Sections of that novel by this author are marked with either a pineapple or a banana depending on which of the two main characters they focus on. That novel by this author of the memoir *Why Be Happy When You Can Be Normal?* features an extended section pertaining to the fairy tale of the (*) Twelve Dancing Princesses. That novel by this author concerns the massive Dog Woman and the child she finds in the Thames, Jordan. This author wrote a semi-autobiographical novel about a girl who is subjected to exorcisms by her Pentecostal church due to her having a lesbian relationship. For 10 points, name this author who demonstrated that *Oranges Are Not the Only Fruit* by writing *Sexing the Cherry*.
ANSWER: Jeanette **Winterson** <JG>

5. The male protagonist of this ballet was given an act 1 variation in Balanchine and Danilova's restaging of it. A character in this ballet reprises the opening mazurka by dancing with Milorad,

after she sees her fiancée try to seduce a woman sat on a balcony. It's not by Ponchielli, but a fête in this ballet begins with the (*) "Waltz of the Hours", and it's first act contains the first ever czardas [CHA-DASH] used in ballet. Originally choreographed by Arthur Saint-Léon, two characters shake wheat next to their ears to determine if they love each other in this ballet. This ballet concludes with the wedding of Franz and Swanhilda, after a doctor demands compensation for losing all of his dancing dolls. For 10 points, name this ballet by Léo Delibes.
ANSWER: _**Coppélia**_ <BS>

6. **James Delbourgo's *Collecting the World* concerns a man who was president of this group. This group's establishment is part of the impetus for the debates analysed in a major collaboration between Steven Shapin and Simon Schaffer. The Kavli Foundation funded this group to buy Chicheley Hall near Milton Keynes. A Whiggish movement within this group was called the Hardwicke Circle and included Daniel Wray. This group awards the (*)** Copley Medal. This group was attacked in the *Dialogus Physicus* of Thomas Hobbes, who wasn't a member. This group grew out of Gresham's College and the Invisible College. For 10 points, name this learned society established in 1660.
ANSWER: **Royal Society** of London <JG>

7. **An extensive series of narrow-gauge railways in south and central Taiwan were originally built to transport this commodity. To remove dead leaves from this crop and to chase away snakes, fields producing it are set on fire before manual harvesting begins. A popular beverage among poorer areas in India is desi daru, which is made from a variety of this food called (*)** khandsari. One variety of this foodstuff is named for a former Dutch colony which now forms part of Guyana. The base spirit in a Caipirinha cocktail is made from the juice extracted during the production of this foodstuff. In 1919, 21 people in Boston were killed by a slow-moving flood of one of the byproducts of refining this food. For 10 points, name this sweet food extracted from a namesake "cane".
ANSWER: **Sugar** (prompt on 'molasses', accept **sugarcane** or **sugar beet**) <EM>

8. **Despite initial acceptance, this scientist's experiments which suggested a link between the magnetizing power of light rays and their wavelength were later shown to be irreproducible. John Herschel suggested that this scientist include a greater explanation of calculus in their work which translated and popularised Laplace's *Mécanique Celeste*. That work, *The Mechanism of the Heavens*, was followed by this scientist's *Physical Geography*, the first English textbook on the subject. William Whewell is thought to have coined the term "scientist" to describe this person after reading one of their works. This (*)** woman and Caroline Herschel became the first female members of the Royal Astronomical Society. For 10 points, name this Scottish polymath who names one of the earliest women's Oxford Colleges.
ANSWER: Mary **Somerville** <EM>

9. **A book about this concept includes an "excursus on procrastination" that argues living life as a pilgrimage is "inherently aporetic" because one is serving that which "is-not-yet". Another work titled for this concept analyses the role of imagination in globalisation. Zygmunt Bauman proposed the *Liquid* form of this concept, while Arjun Appadurai wrote about this concept *at Large*. It's not structuralism, but the (*)** Westin Bonaventure's confusing architecture is analysed in a book about the response to this concept and is titled for *The Cultural Logic of Late Capitalism*. For 10 points, Fredric Jameson and Derrida are often described as being post- what concept?
ANSWER: **modern**ity <JG>

10. In the movie *Over the Hedge*, Bruce Willis voices one of these animals who feeds a caffeinated beverage to the hyperactive squirrel Hammy, allowing him to move at approximately light-speed. In *Parks and Recreation*, Leslie Knope was revealed to have been born in Eagleton owing to an infestation of Pawnee hospital by these animals. One of the old "advice animals" memes showed an

(*) "evil plotting" one of these animals. A popular clip shows one of these animals being confused and distressed after its candy-floss dissolves when washed in water. One of these animals gained notoriety during its two-day ascent of a skyscraper in Minnesota. Affectionately known as "trash pandas" by the internet, for 10 points name these animals, exemplified by the *Guardians of the Galaxy*'s Rocket.
ANSWER: **Raccoon**s <EM>

11. **A collector with this last name is depicted standing wearing a baggy grey and brown suit with his left leg raised on a chair in a Balthus portrait. That collector with this surname ran a New York gallery that specialised in artists in exile due to WW2. An artist with this last name was commissioned by Sergei Shchukin to paint two works each featuring five figures. A work by an artist with this last name that uses entirely purple and blue to depict a boat was hung (*)** upside down by the MoMA for several weeks in 1961. In their later career an artist with this last name was aided by his studio assistant Lydia Delectorskaya. That artist with this last name used colourful blocks of painted paper to make a cutout called *The Snail*. For 10 points, give this surname of Henri, a leader of the Fauvists.
ANSWER: **Matisse** <JG>

12. **Osmium tetroxide and sodium per-iodate are used in the Lemieux-Johnson reaction, which produces the same effect on an alkene as reacting it with this compound. Sydney Chapman resolved the chemistry of a reaction cycle which regulates the amount of this compound in the environment. The 1,3-dipolar cycloaddition of this compound to an alkene eventually generates the cyclic (*)** Criegee Intermediate, which is then cleaved to form two aldehydes. This molecule is used as an alternative to chlorine in some municipal water treatment plants. This molecule was first identified from its smell in the air after lightning strikes. For 10 points, name this triatomic allotrope of oxygen found in a UV-absorbing "layer" in the atmosphere.
ANSWER: **Ozone** <EM>

13. **This artist co-wrote and guested on 'Venus Fly' on Grimes' *Art Angels*. One song by this artist asks "Am I a freak for getting down?", while another contains the instruction "Hit the mute button/Let the vagina have a monologue." One character portrayed by this actress is rescued from the 'Nevermind' procedure by her lovers Ché and Zen, portrayed by Jayson Aaron and frequent collaborator (*)** Tessa Thompson. Personas used by this artist include Jane 57821 and Cindi Mayweather, the eponymous 'ArchAndroid' ('ARK-android') of her first album, and her third album was accompanied by a 46-minute film dubbed an 'emotion picture'. For 10 points, name this actress and singer of *Dirty Computer*, who provided guest vocals for fun.'s 2012 hit 'We Are Young'.
ANSWER: Janelle **Monáe** [accept Janelle Monáe **Robinson**] <EL>

14. **This sport was not contested at the Olympics between 1920 and 1972, but has featured in every Summer Paralympics, and British medallists in this sport include Alison Williamson, Steven Hallard, and Simon Terry. The 2019 World Championships in this sport will be held in 's-Hertogenbosch, following Im Dong-Hyun winning the 2017 men's competition, as well as leading the winning mixed team for (*)** South Korea. Standard scoring rounds in this sport include the Worcester, the Bray, and the Portsmouth, and equipment such as clickers and longrods are used in most disciplines. GNAS scoring protocols are used in the UK in this sport's 'clout' discipline, while most other disciplines use FITA rules. For 10 points, name this sport, in which arrows are propelled into a five-coloured target.
ANSWER: **Archery** [accept **target archery**, prompt on 'clout' before said] <EL>

15. **A poem addressed to this subject compares a "hare, to terrors wide awake" with "some brown clod the harrows failed to break." That poem titled for this subject concludes with a description of the "dews of morn" that lie safely "in the corn" and was written by John Clare. A poem about one of**

these creatures describes how "Man's spirit will be flesh-bound, when found a best" and is by Gerard Manley Hopkins. Another poem addressed to one of these attributes to it "skill" that is "Better than that all treasures / That in (*)" books are found." That poem asks one of these birds to "teach me half the gladness / that thy brain must know" For 10 points, a Shelley poem that opens "Hail to thee, blithe Spirit" is addressed to what bird?
ANSWER: **skylark** [prompt on partial] <JG>

16. **One correlation which describes this process in turbulent flow in smooth tubes contains a correction factor of a ratio of viscosities to the power 0.14 and is the Sieder-Tate equation. In astrophysics, the Schwarzschild criterion gives the conditions where a stellar medium is stable with regard to this process. The Archimedes number describes the relative strength of the free and (*)** forced types of this process. Newton's Law of cooling states that the rate of cooling is proportional to the temperature difference for objects subjected to the forced type of this process. This process is the dominant mode of energy transfer at high Nusselt numbers. For 10 points, name this process where heat is transferred by the bulk movement of a fluid.
ANSWER: **Convection** (or **convective heat transfer**) <EM>

17. **This philosopher frequently presented his arguments in opposition to those of his opponent Henry of Ghent. This philosopher called the difference between a distinction based on concepts and a mind-independent distinction the "formal distinction". This philosopher held that words that ascribe properties have the same meaning when they ascribe those properties to God and when they ascribe them to people. This philosopher introduced the ideas of (*)** univocity of being and haecceity. This medieval philosopher was given the appellation *Doctor Subtilis*. For 10 points, name this medieval philosopher whose name is to do his origins in the County of Berwick.
ANSWER: **Duns Scotus** [or John **Duns**] <JG>

18. **One work in this religion states that "If you become a king by taking care of the people, no one can oppose you." In one work, the founder of this religion states that "When punishments are not properly awarded, the people do not know how to move hand or foot," and that "What is necessary is to rectify names." This religion emerged from the 'Hundred Schools of Thought', and its founder wrote the (*)** *Spring and Autumn Annals*. Major texts in this religion include the *Book of Documents* and the *Classic of Poetry*, both of which form part of this religion's Five Classics, and its Four Books include the *Doctrine of the Mean* and the *Analects*. The central ethical values of this religion are benevolence and righteousness, or *rén* and *yì*. For 10 points, name this Chinese religion, established in the 5th Century BCE by an eponymous philosopher.
ANSWER: **Confucian**ism [accept **Rújiā**] <EL>

19. **In the fifth episode of *Cloak & Dagger*, one of these objects is accidentally teleported into a Roxxon party. In a 2004 film, a child asks Halle Berry's character for one of these objects back following a scene set to Mis-Teeq's 'Scandalous', and in a 2018 film, children twice drop this object after being distracted by something described as "a (*)** Bugatti spaceship". In *Alien Resurrection*, Ripley 8 demonstrates her enhanced abilities by hitting a target with one of these objects without looking, while in another film, one of these objects is used by the Nerdlucks to transform into the Monstars as part of a scheme to capture the Looney Tunes. For 10 points, name these pieces of sporting equipment, one example of which is used to steal the skills of players like Muggsy Bogues and Charles Barkley in *Space Jam*.
ANSWER: **basketball**s [prompt on 'ball'] <EL>

20. **A wrestler with this name was the third member of the Carnage Crew, and is also known as 'The Ultraviolent Beast'. A jazz group with this name's albums are named after successive Hebrew letters, and is led by John Zorn. A seed found in one location with this name was germinated in**

**2005 after two millennia, and the resulting (*)** date palm is known as 'Methuselah'. That location with this name now features a namesake Museum in Memory of Yigael Yadin, from which this place's 'Snake Trail' leads. The remains of only 28 people have been found in that location with this name, contrasting with the 960 claimed by Josephus. For 10 points, give this name, derived from the Hebrew for 'fortress', which names the location of the Sicarii's purported mass suicide.

ANSWER: **Masada** <EL>

**Bonuses**

1. Here's a bonus set./It's all about haikus but/It isn't quite one. For 10 points each:

[10] That leadin kind of satisfies one of the features of a proper haiku, in that the 'but' at the end of the second line works as this kind of 'cutting word' that divides a haiku into two parts.

ANSWER: **kireji**

[10] However, it's not properly a haiku because it doesn't include a *kigo*, a word or image used to convey this aspect of a haiku's circumstances.

ANSWER: The **season** [prompt on 'time of year' or similar]

[10] *Kigo* are generally selected from *saijiki*, exhaustive lists of images associated with each season. For example, 'mist', 'frogs', and 'plum blossom' are all *kigo* for this season.

ANSWER: **spring** [accept **haru**, I guess] <EL>

2. Answer some questions about azides. For 10 points each:

[10] Azides can act as bridging ligands to facilitate the inner-sphere type of this process, which is also studied using the Creutz-Taube complex.

ANSWER: **Electron transfer** (accept **redox**)

[10] The CuAAC reaction is commonly used in bio-orthogonal chemistry for labelling of biomolecules, and involves the copper catalysed reaction of an azide with one of these functional groups. "Terminal" ones of these functional groups have a pKa of around 25.

ANSWER: **Alkyne**s

[10] An azide is added to thymidine to make AZT, a drug used to prevent infection by this retrovirus. People infected by this retrovirus are highly susceptible to Kaposi's Sarcoma.

ANSWER: **HIV** (or **Human Immunodeficiency Virus** do <u>not</u> accept or prompt on 'AIDS') <EM>

3. Who says video games can't teach you history? For 10 points each, have some questions on real people who've appeared in the *Assassin's Creed* games.

[10] *Assassin's Creed II* memorably ends with an anticlimactic fistfight with this 15th-century Spanish Pope in order to get to an ancient artifact under the Vatican.

ANSWER: **Alexander VI** [prompt on partial, accept **Rodrigo Borgia**, prompt on 'Borgia' alone]

[10] Ezio gets most of his cool toys from this Florentine artist and inventor, who probably didn't spend his youth designing spring-loaded hidden blades.

ANSWER: **Leonardo** **da Vinci** [accept either underlined part]

[10] Later, in *Assassin's Creed: Revelations*, one of Ezio's main allies in Constantinople is a young Prince who will later become this 'Magnificent' sultan.

ANSWER: **Suleiman** I <EL>

4. The bass line of one of these works from *Peter Grimes* unusually repeats itself every two-and-three-quarter bars. For 10 points each:

[10] Name this Spanish musical form generally in ¾ [three-four] time. Examples include the final movements of both of Heinrich Biber's *Mystery Sonatas*, and Brahms' *Symphony No. 4*.
ANSWER: **Passacaglia** [pass-a-CAH-lee-a, but accept phonetic pronounciations]
[10] French composer André Raison may have inspired the theme of this composer's *Passacaglia and Fugue in C minor*. This man also composed the *Goldberg Variations*.
ANSWER: J(ohann) S(ebastian) **Bach**
[10] Very closely related to the passacaglia is this musical form, one of which concludes Bach's Partita No. 2 for violin. The most famous piece by Tomaso Antonio Vitali is one of these works for violin and continuo.
ANSWER: **Chaconne** <BS>

5. They're not quizbowl questions, but Will Nediger is a noted constructor of these things. For 10 points each:
[10] Name these things, which are often prepared for the *New York Times* by Will Shortz.
ANSWER: **Crossword**s [prompt on 'puzzles']
[10] Shortz claims his favourite *New York Times* crossword appeared in the November 5, 1996 issue, and could be filled in correctly with either of these two names who were in the news at the time.
ANSWER: Bill **Clinton** and Bob **Dole**
[10] In the UK, *The Observer* has had a series of cryptic crossword setters who have used pseudonyms derived from this group.
ANSWER: The **Spanish Inquisition** (bet they weren't expecting that lol) <EM>

6. Dumbarton Rock was the site of the chief fort of the Kingdom of Alt Clut, whose territory was mostly located near the mouth of this River. For 10 points each:
[10] Name this river whose dredging allowed for the growth of the shipbuilding industry all the way up to Glasgow.
ANSWER: River **Clyde**
[10] This ocean liner was built in John Brown's shipyard on the Clyde, but is better-known for an as-yet-unexplained fire which caused it to sink in Hong Kong harbour.
ANSWER: RMS *Queen Elizabeth* (or *Seawise University*)
[10] The island of Ailsa Craig in the Firth of Clyde is notable as the sole worldwide source for apparatus used in this winter sport.
ANSWER: **Curling**<EM>

7. This object was made from a mixture of brass and iron, used to command good and evil spirits respectively. For 10 points each:
[10] Name this object, a magical ring gifted by God to a Biblical king, and used to control demons, although at one point the demon Asmodeus stole it and ruled in that king's place for forty days.
ANSWER: The **Seal of Solomon** [accept **Ring of Solomon** or **Khātam Sulaymān**]
[10] Solomon received the ring in order to subjugate this demon as justice for sucking out a child's lifeforce through his thumb. This demon would then use it to bring Beelzebub under Solomon's control.
ANSWER: **Ornias**
[10] In Islamic eschatology, on the Last Day the Beast of the Earth will wield both the Seal and this other Biblical artifact, which was previously turned into a snake and used to part the Red Sea.
ANSWER: The **Staff of Moses** [accept clear-knowledge alternatives, provided that they name **Moses**]
<EL>

8. Narrators of different sections of this book include Pelafina Lièvre, her son Johnny Truant, and the blind academic Zampanó, and oddities of the title structure include 'The Five and a Half Minute Hallway'. For 10 points each:

[10] Name this book, whose confusing narrative broadly follows Will Navidson's exploration into the impossible labyrinth that opens up within his home.
ANSWER: *__House__ of Leaves*
[10] *House of Leaves* is the debut novel of this American writer of ergodic literature, whose other works include *Only Revolutions*, *The Fifty-Year Sword*, and the ongoing 27-volume novel *The Familiar*.
ANSWER: Mark Z. **Danielewski**
[10] The story and format of *House of Leaves* repeatedly reference labyrinths - for example, colour editions of the book feature the name of this inhabitant of the Cretan Labyrinth written in red and struck out.
ANSWER: ~~**Minotaur**~~ [prompt on 'Asterion' or other names for it, we want the specific word] <EL>

9. This substance is used for a mass suicide by adherents of Bokononism. For 10 points each:
[10] Identify this substance created by Dr Hoenikker that causes a massive global upheaval after it is unleashed from San Lorenzo.
ANSWER: **ice-nine**
[10] This author's experimental and sort of science-fictional novel *Ice* concerns an unnamed narrator who is searching for the "ice maiden" who is held captive by her husband, the militant "warden".
ANSWER: Anna **Kavan**
[10] Ice is a recurring object of fascination in this author's novel *One Hundred Years of Solitude*.
ANSWER: Gabriel **Garcia Marquez** [do not accept or prompt on partial answers] <JG>

10. December 12, 2012 was declared 'Doomtree Day' in this city, in honour of the eighth Doomtree Blowout festival, celebrating and highlighting this city's music scene. For 10 points each:
[10] Name this city, whose eponymous synth-heavy funk-rock 'sound' was popularised in the 80s by acts such as Sheila E and Apollonia 6.
ANSWER: **Minneapolis** [prompt on 'Twin Cities', do not accept 'St. Paul']
[10] The Minneapolis sound was pioneered by this guitarist and singer of 'Sign o' the Times' and 'Purple Rain'.
ANSWER: **Prince** Rogers Nelson [accept **The Artist Formerly Known As Prince** or any attempts to pronounce ☥ ]
[10] A somewhat earlier Minneapolis export was this wartime trio, with hits such as 'Boogie Woogie Bugle Boy'.
ANSWER: The **Andrews Sisters** <EL>

11. This theorem was first proven by L. E. J. Brouwer in 1912, and shows that there is always a point with zero horizontal wind velocity on the Earth's surface. For 10 points each:
[10] Give the common name of this theorem, which states there cannot be a continuous nonzero tangent vector field on a 2-sphere.
ANSWER: **hairy ball** theorem [accept **hedgehog** theorem if they feel like being no fun, prompt on but DO NOT OTHERWISE OFFER 'Poincaré-Hopf theorem']
[10] However, it is possible to comb a hairy torus, as a torus has a value of 0 for this characteristic symbolised χ ('chi'), while the sphere, like all spherical polyhedra, has a value of 2. This figure is defined for polyhedra as the number of vertices, minus the number of edges, plus the number of faces.
ANSWER: **Euler** characteristic
[10] The hairy ball theorem is a special case of this doubly-eponymous theorem, which states that the sum of the indices of all zeroes of a vector field on a manifold is equal to the manifold's Euler characteristic.
ANSWER: **Poincaré-Hopf** theorem <EL>

12. This kingdom fell to the French empire in 1894 after the death of its king Béhanzin. For 10 points each:

[10] Identify this kingdom of the Fon people based largely in modern Benin.
ANSWER: **Dahomey**
[10] During the reign of King Agaja the Kingdom of Dahomey fell under the protection of this Yoruba Empire. The founding myth of this Empire involves Oranyan being led to Ajaka by a charmed snake.
ANSWER: **Oyo** Empire
[10] The Oyo Empire was based primarily in this country, whose major languages alongside Yoruba include Igbo and Hausa.
ANSWER: **Nigeria** <JG>

13. Answer some questions about literary engagement with Margaret Thatcher, for 10 points each:
[10] This play by Caryl Churchill concerns a dinner party hosted by Marlene that is attended by, among others, Pope Joan and the thirteenth-century Japanese concubine Lady Nijo.
ANSWER: *Top Girls*
[10] This author of the collection *The Assassination of Margaret Thatcher* wrote the novel *Wolf Hall*.
ANSWER: Hilary **Mantel**
[10] While ripped on cocaine, Nick Guest manages to dance with PM Thatcher at a party in this novel by Alan Hollinghurst.
ANSWER: The *Line of Beauty* <JG>

14. Clement Vallandigham, a leader of this political faction, died after shooting himself in in the stomach in court while trying to prove that the person his client was accusing had accidentally shot himself in the stomach. For 10 points each:
[10] Identify this faction of northern Democrats in the Union who opposed the Civil War.
ANSWER: **Copperhead**s
[10] The major Copperhead leader alongside Vallandigham was Alexander Long, who, perplexingly, was previously associated with this party. This anti-slavery party was led by Martin Van Buren in the 1848 election.
ANSWER: **Free Soil** Party
[10] This US president from 1853-57 was criticised for his association with the Copperheads and the linked Knights of the Golden Circle.
ANSWER: Franklin **Pierce** <JG>

15. Major events in this sport include the US-based Rugged Maniac and Spartan Race, and the UK's Tough Guy. For 10 points each:
[10] Name this sport, governed by the FISO, which might use apparatus like a Spider Climb, a Salmon Ladder, or a Warped Wall.
ANSWER: **Obstacle course racing** [accept **obstacle racing**, **obstacle course** or **OCR**]
[10] Probably the most famous televised OCR event is this annual Japanese event, which sees 100 competitors compete over a brutal four-stage course and is syndicated in over 150 countries.
ANSWER: *SASUKE* [accept *Sasuke Rising*, *Kunoichi*, *Ninja Warrior* or *Women of Ninja Warrior*, do not accept 'American Ninja Warrior']
[10] The UK finally got a *Ninja Warrior* franchise in 2015, but before that the closest we got to televised OCR was this show presented by Richard Hammond, known for its iconic 'Big Red Balls'.
ANSWER: *Total Wipeout* <EL>

16. You know what space is full of? Lines. For 10 points each, try pinning down some notable ones.
[10] Very much the first line you reach is the Kármán line, marking the official start of outer space. It lies at 100 km above sea level, and as a result near the bottom of this second-highest layer of the atmosphere.
ANSWER: **thermosphere**
[10] On a somewhat larger scale, the largest known galactic superstructure in the universe is this 3 gigaparsec-long line of billions of galaxies, discovered in 2013.

ANSWER: **Hercules-Corona Borealis Great Wall** [accept **Great GRB Wall**, prompt on 'Great Wall']
[10] The Lyman-alpha forest is a series of absorption lines in the spectra observed from these extremely luminous galactic nuclei, widely used to identify interstellar gas clouds.
ANSWER: **quasar**s [accept **quasi-stellar object**s or **QSO**s] <EL>

17. This Bishop of Winchester was likely rather surprised not to be included in the Council of Sixteen men appointed in Henry VIII's will to assist Edward VI in his early reign. For 10 points each:
[10] Identify this man who was put in the Tower of London for his oppositions to the Protestant reforms established by the council. He was later freed and made Lord Chancellor by Mary I.
ANSWER: Stephen **Gardiner**
[10] Gardiner managed to remain in favour for a while thanks to the installation of this last Catholic Archbishop of Canterbury in 1556.
ANSWER: Reginald **Pole**
[10] This Spaniard was the *jure uxoris* King of England during the reign of Mary I.
ANSWER: **Philip II** [prompt on partial] <JG>

18. Tarsem Singh really wants you to know how much 20th Century art he's seen, so here are some bonuses on art referenced in *The Cell*. For 10 points each:
[10] The scene in which a horse is split into separated pieces by a series of panes of glass is a reference to the works of this British artist, such as the halved cow in *Mother and Child Divided*.
ANSWER: Damien Steven **Hirst**
[10] Just before that scene, Catherine falls into a huge, curved corridor based on *Schacht*, by this Swiss painter and designer with a distinct, eroticised 'biomechanical' style.
ANSWER: Hans Ruedi **Giger** ('GHEE-gur')
[10] When Agent Novak enters the dream world, he is confronted by three women in an empty field with their mouths open to the sky, in a scene based on *Dawn*, by this Norwegian kitsch painter.
ANSWER Odd **Nerdrum** <EL>

19. You might know the Æsir and the Vanir, but how well do you know the animals of Norse myth? For 10 points each:
[10] The first animal to appear in the Norse myth system is this primeval cow, who nourished the giant Ymir with her milk while licking the first god out of a salty stone.
ANSWER: **Auðumbla**
[10] In what must surely get old, every night the Æsir and einherjar eat the non-specific beast Sæhrímnir and drink mead from a goat's udders in this glorious hall in Asgard.
ANSWER: **Valhalla** [accept **Valhöll**]
[10] Speaking of jobs that must get old, Ratatoskr is one of these animals, who runs up and down the World Tree every day carrying messages between a dragon at the bottom and a hawk on an eagle's head at the top.
ANSWER: **squirrel** <EL>

20. This philosopher collaborated with Jean-Loup Thébaud on *Just Gaming* to clarify misconceptions about his work. For 10 points each:
[10] Identify this philosopher whose *The Postmodern Condition* provided the self-consciously simplistic definition of the postmodern as "incredulity towards metanarratives."
ANSWER: Jean-François **Lyotard**
[10] *The Postmodern Condition* was subtitled for being a report on this concept. Gettier cases caused much trouble for the definition of this concept as justified true belief.
ANSWER: **knowledge**

[10] One work Lyotard discussed with Thébaud in *Just Gaming* is this one. In this sort-of political book Lyotard uses the notion of "The Great Zero" to describe the effect of a powerful *dispositif* on a "band" which has neither an inside nor an outside.
ANSWER: ***Libidinal Economy*** <JG>

**Tiebreaker**

**One deity of this domain is depicted with a bronze bull's head and an iron forehead, and was originally a Hmong king. One deity of this domain had a name meaning 'opener of the ways', and was depicted with the head of a wolf, while another deity of this domain's name translates as 'Eight Banners', and his symbol is the dove. A Hindu god of this domain was born when Shiva's semen spilled into the Ganges, and he is depicted with up to six heads and riding a (\*)** peacock. It's not the Sun, but one god of this domain wielded the spear-thrower Xiuhcoatl and was born fully grown after Coatlicue was impregnated by a ball of feathers. In Greek tradition, one deity of this domain is the father of Phobos and Deimos. For 10 points, name this domain, governed by gods like Kartikeya, Huitzilopochtli, and Ares.
ANSWER: **war** [accept clear-knowledge equivalents, accept **martial** gods, prompt on 'Chi You', 'Wepwawet', 'Hachiman', 'Kartikeya', 'Huitzilopochtli', or 'Ares' before said] <EL>