

MindSweep 2019

Part II – The Sciences, Popular Culture, Reading

PLEASE OPEN THIS BOOKLET ONLY WHEN YOUR PROCTOR SAYS “START”.

PLEASE FAMILIARISE YOURSELF WITH THESE DETAILS BEFORE THE START.

This BOOKLET contains 90 questions, divided into 3 topics. It comprises Part II of the contest. Your cumulative score across the ten topics will determine your ranking.

Rules:

1. You have 75 minutes to answer as many of these questions as possible.
2. Papers will be swapped with another player for marking at the end of 75 minutes.
3. Unless stated in the question, last names will suffice. However, if you give the wrong first name, your answer will be incorrect!
4. Phonetically correct answers will be accepted.
5. After the three topics have been marked, you will get your paper back and you have 5 minutes to check you agree with the marking. Disputes must be referred to the coordinator in this time. Please indicate which answer(s) you are querying with a large “?” question mark.
6. At the end of marking, your checker should copy your scores into the table on this sheet. If you agree with their marking, sign next to the score(s) to confirm this. Your complete script should then be handed in (it will be returned to you later). Once this has been done, no further discussions will be entered into about your score. The score signed for will be considered to be correct.
7. The overall highest scoring player from all participating venues will be the KQA MindSweep Champion 2019.
8. In the event of a tie, your lowest scores will be compared and the person with a higher score there will win.
9. In the event of any unprecedented occurrence or unforeseen circumstances arising in the course of the quiz, your proctor's decision shall be final and binding. KQA will adjudicate if the proctor refers the matter to us.
10. Your commencing to answer the questions indicates your acceptance of these rules.

Thank you.

Nagaratna Patil, Donna Eva, Santosh Swaminathan, Dibyendu Das, Arul Mani, KQA

Contestant's Name			⇒
#	Topic	Marks	
1	The Sciences		
2	Popular Culture		Sign here ⇒
3	Reading		
	Total		

1. Which dinosaur genus has a name coined by bringing together the Greek words for ' double' and 'beam', in reference to the chevron bones on the underside of its tail?	1.
2. The Gulf Stream current takes its name from the fact that it was first observed around which water body?	2.
3. When he died in Warsaw in 1996, there were 458 claimants for the number 1, and about 4500 for the number 2. Identify this personality famous for such phrases as 'Property is nuisance'.	3.
4. Dada Hira Singh Markam heads a small party that seeks to set up a state for tribal people in Central India. Name this state, familiar to us from being borrowed for use while talking about shifts in the past?	4.
5. He determined that the Sun and its planets were not even close to the galaxy's center but 30,000 light years away, in the galactic hinterland, traveling an orbit of that center that takes 300 million years to complete. Identify this astronomer, whose discovery has been clouded over by other accomplishments.	5.
6. Humphry Davy believed, erroneously, that Ammonia and Nitrogen would contain another element X because he started out as a subscriber to Antoine Lavoisier's X theory of acidity. What is this missing element X?	6.
7. Carl Dam's discovery of this vitamin occurred while he was experimenting on the intake of cholesterol among chicken and the fact that it caused haemorrhages. The vitamin was named after the spelling used in Germany and Scandinavia for a vital bodily process. Name the vitamin or the process.	7.
8. In fluid mechanics, the _____ effect is the phenomenon that occurs when floating objects that don't normally float attract one another. It is named after the breakfast cereal _____ due to the fact that breakfast cereal often clumps together or clings to the sides of a bowl of milk. Fill in the blank.	8.
9. An international research team led by the University of Groningen has used the LOFAR radio telescope to study the development of lightning flashes in unprecedented detail. Their work reveals that the negative charges inside a thundercloud are not discharged all in a single flash, but are in part stored alongside the leader channel at Interruptions. This occurs inside structures which the researchers have called needles. In contrast to an oft used phrase. What does this research explain?	9.
10. A group of linguists, technologists, and sound designers—led by Copenhagen Pride and Vice's creative agency Virtue began by recording the voices of two dozen people reading a predetermined list of sentences. The initial idea was to merge the voices together to create some kind of average, but when that proved too difficult, they zeroed in on one person's voice that ranged between 145 and 175 hertz, and tweaked it until they achieved the desired result. What were they trying to achieve?	10.
11. ___X___ is a strong elastic ligament in the midline of the neck of sheep or cattle which relieves the animal of the weight of its head. The name is derived from the corruption of paxwax/faxwax. Identify the term, which you are likely to have come across in a popular nursery rhyme.	11.

12.	"The Blind __X__: Why the Evidence of Evolution Reveals a Universe without Design" is a 1986 book by Richard Dawkins. The title of the book refers to a certain analogy made famous by William Paley in his 1802 book Natural Theology. What is X?	12.
13.	Stiff: The Curious Lives of Human __X__ is a 2003 book by Mary Roach. Ranging from cosmetic surgery to crash tests, the book details the unique scientific contributions of the _____. Either complete the title or explain the subject of the book.	13.
14.	The ExoMars rover, part of the international ExoMars programme led by the European Space Agency and the Russian Roscosmos State Corporation, is scheduled to launch in July 2020. In July 2018, a public outreach campaign was launched to choose a name for the rover. On 7 February 2019, the rover was renamed __X__ __Y__, in honour of the English scientist who made key contributions to the understanding of the molecular structures of DNA, RNA, viruses, coal, and graphite. Who is XY?—full name required	14.
15.	Chemotherapy patients treated with drugs such as capecitabine (brand name Xeloda), bricklayers, workers in the pineapple industry and (rarely) secretaries are all at various levels of risk to undergo what involuntary physical change, one that would be highly prized by certain sections of society?	15.
16.	This condition, caused by the inflammation of small sacs of synovial fluid situated around the joints of the human body, has several traditional names, indicating the professions or activities which commonly caused it. These names include "housemaid's knee", "clergyman's knee", "student's elbow" and "weaver's bottom". What painful condition?	16.
17.	The other essays in the book are: 'The Lost Mariner', 'The President's Speech', 'The Disembodied Lady', 'The Man who fell out of bed', 'On the level', 'The Twins', 'Eyes Right', 'The Dog beneath the skin', and 'The Autist Artist'. Name the main essay - also the title of the book.	17.
18.	Upon the death of noted mathematician Maryam Mirzakhani, several Iranian newspapers, broke a certain taboo and published photos of Mirzakhani with ____, a gesture that was widely noted in press and media. What taboo was broken/fill in the blank ?	18.
19.	An essay by Christine Miserandino introduced and popularized the use of X as a means of calculating the amount of physical and/or mental energy a person may have at the end of the day as a result of a disability. Name X.	19.
20.	AAT, or animal assisted Therapy is often used as an alternative form of therapy. The most common animal used in AAT are dogs. What's the second most common animal used?	20.
21.	Andre Debierne began as an assistant to Pierre and Marie Curie, finally succeeding the latter as director of the X Institute. He identified a new element Y in 1900 while working with pitchblende which was named after the Greek word for 'ray'. Give us X and Y. (TWO-POINTER)	21.
22.	_____ Montes is a mountain on the planet Venus named in tribute to the Edinburgh-born physicist whose work anticipated the existences of radio waves that made it possible to study the surface of the planet. Name this physicist, and tell us what makes this act of naming exceptional in its context. (TWO-POINTER)	22.

23.	C/2013 P2 and C/2014 S3 are comets discovered in the present decade by the Panoramic Survey Telescope. They contain no ice but are similar in composition to asteroids. The lack of ice results in their looking very different from other comets, and thus in a category name more feline than astronomical. In what way are these comets different? What generic name is thus used for such comets? (TWO-POINTER)	23.
24.	Arthur Compton made a historic phone call on 2 December 1942 to James B Conant who was President at Harvard, and head of the National Defense Research Committee. The cryptic conversation seemed to refer to Columbus but was actually a confirmation of success in Chicago. Who was he actually referring to? What was the success in Chicago? (TWO-POINTER)	24.
25.	The year 1973 is unusual as far as the Nobel Prizes are concerned, for two reasons. The Medicine awards were given to a Dutchman, and two Austrians who had nothing to do with cures or physiology but were founders of a new science built around watching and wondering. The Dutchman ended up emulating his brother, who had won the inaugural Nobel for Economics in 1969, making them the only sibling pair to have won the Prize. What new field was recognised that year? Give us the Dutch scientist's surname. (TWO-POINTER)	25.
26.	This is Fordite. Also known as Detroit Agate, it has been used to make "eco-friendly" jewellery around the world. What about it, ensures that its use in jewellery making is deemed eco-friendly? (VISUAL)	26.
27.	This horseshoe shaped structure takes its name from the fact that it resembles the Greek letter upsilon. What is the name given to this structure? (VISUAL)	27.
28.	Officially, the name of the newly discovered shape __X__ was coined because of its resemblance to the shape of the scutum and scutellum in some insects. However, in a video interview, one of the mathematicians involved in the project spoke about how as a joke the shape was temporarily named after the biology group leader Luis M. Escudero, and that it was eventually modified to __X__. What is this shape X? (VISUAL)	28.
29.	The world's fattest parrot whose name means the "night parrot" and once thought to be extinct are breeding again. The females mate only every 2-4 years when New Zealand's Rimu trees are full of fruits. Name the bird. (VISUAL)	29.
30.	On the occasion of his 334th birthday this AI-powered google doodle based on the machine-learning network called Coconet made its appearance. Who was celebrated thus? (VISUAL)	30.

1. The German word for substitute found its way into English around World War I and continues to live on as term meaning inferior or not the real thing. What word fell thus from symbolising ingenuity to disappointment?	1.
2. Tessellate, is a word meaning to fit together in a pattern with no spaces in between. Which 1984 offering requires you to tessellate continuously for a high score?	2.
3. The Diamond is the hardest substance known on Earth. The Sapphire comes third on this list. What mineral, 9.5 on Moh's scale, and named after the French Nobel laureate who discovered fluorine, is second on the list?	3.
4. The name comes from the local word for vegetation born after virgin forest is destroyed, and there you may find some token of rebellion. It is martial but disguised to appear innocuous. What are we talking about?	4.
5. The cost of using Harry Nilsson's song so many times took up a significant portion of the show's music budget. His estate also limited how many times the song could be used. According to music supervisor Brienne Rose, the production was able to "find a balance between the maximum number of uses and what the budget would allow." Which show?	5.
6. Actresses Mary Vivian Pearce and Nancy Paine Stole (known professionally as Mink Stole) are the only two members of this director's ensemble of mostly Baltimore-based actors to have appeared in every single one of his 12 feature films to date, from Mondo Trasho (1969) to A Dirty Shame (2004). Name the director, whose ensemble is known as 'The Dreamlanders' after his production company, Dreamland Productions.	6.
7. Season 3 of this cultural phenomenon is described on its website as follows: "_____ is heading back to court. This time, in Cleveland. A year inside a typical American courthouse. This season we tell you the extraordinary stories of ordinary cases. One courthouse, told week by week." This is in contrast to the murder mystery that was the focus of the blockbuster first season (over 175 million downloads in total), and the army desertion that formed the basis of the comparatively disappointing second season. Fill in the blank.	7.
8. Eminem's 2000 hit song "___X___", about an overzealous fan, has now become a term used to describe anyone who takes their love of a particular artist or entertainment franchise to new extremes. X?	8.
9. Although he died more than two decades ago, he has regained popularity in since his show "The Joy of Painting" became available on YouTube and Netflix. His calm, encouraging voice has found favour with a new generation. Who?	9.
10. When ___X___ first formed in 2013, they took their name from a Korean expression which roughly translates to "bulletproof boy scouts." Their ever growing fanbase call themselves the ___X___ ARMY with ARMY standing for "Adorable Representative M.C for Youth". What is X?	10.

11.	In December of 2016, Jamaican-British singer Rebecca Ferguson was approached to perform at the upcoming U.S. presidential inauguration. She replied that she would be willing to sing only one song at the ceremony, a protest song written in 1937 by poet Abel Meeropol inspired by his horror at the racially-motivated extrajudicial killings common in America at the time. Understandably, the Trump inauguration committee withdrew the offer. What was the only song Ferguson was willing to sing?	11.
12.	The names of British rock band Buick 6, bluegrass group Copper Kettle, Danish psychedelic rockers The Savage Rose, alt-rock band Cowboy Mouth and roots rock band Hollis Brown all have something in common. What is the source of these band names?	12.
13.	'You Should See Me in a Crown' is the lead single from singer-songwriter Billie Eilish's debut album When We All Fall Asleep, Where Do We Go?. The song takes its name from a line of dialogue spoken by actor Andrew Scott in a 2012 episode of a globally-popular British TV show. Name the show.	13.
14.	Who during his tenure as a BBC Two Channel controller commissioned a sketch show called Monty Python's Flying Circus though he was prouder of commissioning an opera by Benjamin Britten ?	14.
15.	'House of Nutter: The Rebel Tailor of Saville Row' is the story of Tommy Nutter the pre-eminent suit tailor with clients like Elton John and Mick Jagger. On the cover of which famous music album published in 1969 can you see his creations, though one of the group members wore jeans ?	15.
16.	The opening theme of the third season of this TV series is the Billboard-topping song 'Death Letter' by the jazz singer Cassandra Wilson from her 1995 album 'New Moon Daughter'. Name the series.	16.
17.	____ River Piano Group is the largest supplier of pianos in the world. Located in the southern part of China. Fill the blank. With the name of a river you know.	17.
18.	Bugs Bunny is credited to be the biggest star in the Looney Tunes and Merrie Melodies shorts. However, he is considered to be a breakout character since the Warner Bros. star status belonged to another character at the time. Who did this billing belong to?	18.
19.	Reddit has Snoo, it's alien mascot. Twitter has Larry the Bird as it's mascot. What popular online messaging platform is the Wumpus a mascot for?	19.
20.	When WarioWare Gold launched on the Nintendo 3DS in 2018, one of the minigames involved Wario drawing the portraits of characters from the universe based on scans of amiibos. However, the reason that this particular minigame came to attention was that Wario did something different when drawing his own portrait as compared to the other characters. What?	20.
21.	(The words This is For Everyone were tweeted to the general public at an event seven years ago. The sending of the message was orchestrated by director Danny Boyle, and contained a double reference--to the event itself, and to something created between 1989 and 1991 by the celebrity who tweeted the message. What was the event? Who was the celebrity? (TWO-POINTER)	21.
22.	X is a popular internet sensation and celebrity. Though X is a name given to her by the internet, she is actually named after a savoury condiment. Who is X and what's her actual name? (TWO-POINTER)	22.

23. Penguinese is a language spoken in a popular TV show, X. It is an example of an invented Y which is defined as "is a style of language used in satirical theatre, a gibberish with macaronic and onomatopoeic elements, used in association with mime and mimicry." What is X? Give us Y. (TWO-POINTER)	23.
24. The band X were at Stephen King's house for dinner. When they went there, he handed a book at to band-member DeeDee who speed-read it in an hour. And then he wrote the song in 40 mins, The song features lines such as "Molars and fangs, the clicking of bones/Spirits moaning among the tombstones". Name the band and the book/song. (TWO-POINTER)	24.
25. This is one of the many memes about an individual and a phrase popularised by them. Fill in the blanks with the name of the person and the phrase. (TWO-POINTER) (VISUAL)	25.
26. Which famous director is portrayed on the cover of the Cannes 2019 poster? (VISUAL)	26.
27. In late 2018, film producer Ashwini Yardi took to Twitter to share a picture of a doll being sold at a toy store in Kerala. Of which celebrity sensation is the doll a replica? (VISUAL)	27.
28. A Beautiful Day in the Neighborhood, described as "a timely story of kindness triumphing over cynicism" is based on the true story of a real-life friendship between __X__ and journalist Tom Junod. Slated for release in November 2019, the film stars Tom Hanks as __X__. X? (VISUAL)	28.
29. This is from the first look at what is meant to be a continuation (not a reboot or a remake) of __X__ __Y__. According to director Elizabeth Banks, __X__ is richer than ever, and has used that to expand his operations. XY? (VISUAL)	29.
30. An Italian company founded by a pair of brothers published its first FIFA World Cup trading cards and sticker album for the 1970 World Cup in Mexico, initiating a craze for collecting and trading stickers. " The stickers were a huge hit during the FIFA World Cup in Russia last year too. Name the brand/company that made a lot of bread this way. (VISUAL)	30.

1. This species has been referenced in numerous books, movies and TV shows including Tolkien's The Hobbit and William Gibson's Spook. It is also the namesake of a movie made with the creature in mind. It is rumoured to be seen in the Gobi Desert but so far no solid proof has been found for its existence. What is it?	1.
2. Whose autobiography is titled "Always Look on the Bright Side of Life: A Sortabiography"?	2.
3. American Spy, by Lauren Wilkinson, which featured on multiple must-read lists of 2019, stars the black woman FBI officer, Marie Mitchell, who is sent to Burkina Faso on an undercover mission. During the presidency of which charismatic revolutionary referred to as the 'African Che', does the action happen?	3.
4. Voltaire, Rousseau, D'Alembert, Montesquieu, and Francois Quesnay were some of the notable contributors to a project that was begun in 1751 and completed in 1772. What project, often coupled with the name of its chief instigator?	4.
5. In 1963, Billie Whitelaw met this playwright. They enjoyed an intense professional relationship until his death in 1989. He wrote many of his more experimental plays especially for her, referring to Whitelaw as "a perfect actress". Whitelaw remained the foremost interpreter of the man and his work. They collaborated on plays such as 'Play', 'Eh Joe', 'Happy Days', 'Not I', 'Footfalls' and 'Rockaby' for both stage and screen. Name the playwright.	5.
6. "I think I got about half way through _____ and found myself thinking if this is true—I don't want to know. I really would rather not know this stuff. I'd rather do it because it's true and because I accidentally wind up creating something that falls into this pattern than be told what the pattern is." Neil Gaiman talking about which book?	6.
7. Quiet: The Power of __X__ in a World That Can't Stop Talking is a book by Susan Cain in which she argues that modern Western culture misunderstands and undervalues the traits and capabilities of __X__. What is X?	7.
8. Andreas Osiander, a Nuremburg theologian, added to this 1543 work a famous and unauthorized preface asserting that the hypothesis was not intended to be a true description but was merely a useful supposition. Name author, work or hypothesis (ANY ONE).	8.
9. The author of the 2018 book of novellas titled Aetherial Worlds is Tatyana T. - great grand-niece of a famous author. What's her famous surname ?	9.
10. The Art of Purring' and 'The Power of Meow' are two of the books by David Michie in the series dealing with HHC - His Holiness Cat. Who is the 'His Holiness' referred to in the books?	10.
11. Abel and Dewar created a smokeless propellant for guns that took its name from its appearance, somewhat like spaghetti sticks. The 7-letter name they gave it now survives in crime fiction, usually in close association with fumes. What is this name?	11.

12.	The author Jill Murphy began writing the first book at the age of 15, while still at school, and based many points of the stories on her own school experiences at Ursuline Convent in Wimbledon, England, with Singing becoming Chanting, Chemistry becoming Potions and so on. The first book was published in 1974 and the most recent book was published in 2018. Which popular series?	12.
13.	The father Guglielmo was consul at Bugia in Algeria around 1180, and appointed an Arab tutor to teach his son. This decision led to the publication of a book in 1202 which devoted seven chapters to an explication of notation and place value, and the rest to problems illustrating practical applications. Name either Guglielmo's son, or the book.	13.
14.	X, the 14-year-old protagonist of a satirical Vonnegut story about a society devoted to reducing everything to the average, shares his surname with Tor X, the Swedish weather scientist who explained how ice-crystals eventually become raindrops and lent his name to the process. Give either the title of the story, or name the Swedish scientist.	14.
15.	In 1833, this American citizen brought a revised version of the King James Bible. This attempt, as one might expect, focused on removing archaisms ('why' instead of 'wherefore', and Holy Spirit instead of Holy Ghost) rather than on any theologically motivated changes. Identify this person, responsible for what is today called the Common Version.	15.
16.	The Iraqi scholar Muhsin Mahdi brought out in 1984 the Leiden Text, an authoritative version in his native language of a book X, based on a Syrian rendition in the Bibliotheque Nationale. This version was translated into English by Hussain Hadawy. What work X are we talking about?	16.
17.	In the original work, their names are Tootles, Nibs, Slightly, Curly and The Twins. In the prequel series written by Dave Barry and Ridley Pearson, their names are Prentiss, James, Thomas and Tubby Ted. In the 1991 film adaptation directed by Steven Spielberg, they are named Rufio, Thud Butt, Pockets, Ace, Don't Ask, Too Small, Latchboy and No Nap. By what collective name are these fictional characters known?	17.
18.	The Monster Manual, the Player's Handbook and the DM Guide are the three core rule books in most editions of what game , first published in 1974 by Tactical Studies Rules Inc.?	18.
19.	Actors who have portrayed this literary character include Mark Linn-Baker (in the 1984 television adaptation of The Ghost Writer), Gary Sinise (in the 2003 film adaptation of The Human Stain) and David Strathairn (in the 2016 film adaptation of American Pastoral). Name the character, intended by the author to be an alter ego of himself, whose most recent appearance has been in the 2007 novel Exit Ghost.	19.
20.	Writers Alan Moore, Neil Gaiman, Jeff Smith, Craig Thompson and Daniel Clowes have all been very vocal about their distaste for this two-word term, all of them preferring the much simpler 'comic book'. What term, which gained popularity in the 1980s as a way to market comics to adult readers?	20.
21.	Apart from his many collaborations with Mortimer J. Adler, he also wrote two books by himself. They were titled The Joy of Reading, and A History of Knowledge. Identify this American celebrity, and name the 1990s film where he was portrayed by Ralph Fiennes. (TWO-POINTER)	21.

22.	X, Y and Z are basically sibling words. X used to be the past tense of Y, because X was travelled on by horseback. Z was the Scottish version of X and meant "to gallop away with hostile intent". Though the words aren't as closely related now, they still share similarities in the way they are spelt. Name ANY TWO of X, Y and Z. (TWO-POINTER)	22.
23.	The title of the memoir 'Darkness Visible' originates from John Milton's description of Hell in Paradise Lost and talks about this author's descent into depression and ultimate recovery. The book followed his op-ed piece on the suicide of Primo Levi in 1988 and raised awareness about depression. Name the author. Also name the British Nobel laureate who used the same title for a 1979 novel. (TWO-POINTER)	23.
24.	The narrator in his most famous book, published in 1516, is a Portuguese sailor and man from nowhere whose surname means 'peddler of nonsense' in Greek. The writer also worked on a historical biography of Richard III which Shakespeare may have used as a source for his play. Name the writer and the 1516 book, (TWO-POINTER)	24.
25.	"Unhappy the land that has no heroes," ventures the character Andrea. "Pity the land," retorts the title character, "that needs a hero." Lines from which 1943 play, set in the Venetian Republic of the 17th century? Also name the playwright. (TWO-POINTER)	25.
26.	Connect these two images to get the name of a work of fiction published in 2003 and shortlisted for Man Booker prize. . (VISUAL)	26.
27.	After he won the Man Booker prize, he made an offhand remark that his next project would be an 'African Game of Thrones'. The first book of the series titled, 'Black Leopard, Red Wolf' seems to fulfill his remark. Name the author.	27.
28.	In the comic Wildcats, a character has his blood replaced with dioxins, giving him the name X. In real life, X has played a huge role in the deaths of numerous people in a particular war. Identify X? OR Name the war. (VISUAL)	28.
29.	Moon Code is a language developed by Dr. William Moon. It is a language that is similar in use to the more popular X and is based off of simplified Roman letters. Even though numerous users claim that it is much easier to learn than X, X is still used by a majority of the languages' targeted audience. Name X. (VISUAL)	29.
30.	Sally Heathcote: __X__ is a 2014 graphic novel about a fictional character named Sally Heathcote who begins her life as a maidservant in the home of Emmeline Pankhurst. Fill in the blank for X? . (VISUAL)	30.