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IPMAT Indore 2025

Previous Year Question Paper

90 Questions · Quantitative Ability (Short Answer) · Quantitative Ability (MCQ) · Verbal Ability & Reading Comprehension

Prepared by Thinkoraa for practice. Answer key and step-by-step solutions are at the end of this booklet.

Quantitative Ability (Short Answer)

1 If the polynomial $ax^2 + bx + 5$ leaves a remainder 3 when divided by x − 1, and a remainder 2 when divided by x + 1, then 2b − 4a equals

Type in your answer (no options)

2 English exam and Math exam were conducted separately for a class of 120 students. The number of students who did not appear for the English exam is twice the number of students who did not appear for the Math exam. The number of students who passed the Math exam is twice the number of students who appeared but failed the English exam. If the number of students who passed the English exam is twice the number of students who appeared but failed the Math exam, then the number of students who appeared but failed the English exam is

Type in your answer (no options)

3 The number of factors of $3^5 \times 5^8 \times 7^2$ that are perfect squares is

Type in your answer (no options)

4 Five teams A, B, C, D and E, each consisting of 15 members, are going on expeditions to five different locations. Each team includes members from three different skill sets: biologists, geologists and explorers. However, the number of members from each skill set varies by team and each member has only one speciality. The total numbers of biologists, geologists and explorers are equal. The following additional information is available:
• Every team has at least 2 members from each of the three skill sets.
• Teams C and D have 6 biologists each, and Team A has 6 geologists.
• Every team except A has more biologists than explorers.
• The number of explorers in each team is distinct and decreases in the order A, B, C, D and E.
The number of biologists in team E is

Type in your answer (no options)

5 Five teams A, B, C, D and E, each consisting of 15 members, are going on expeditions to five different locations. Each team includes members from three different skill sets: biologists, geologists and explorers. However, the number of members from each skill set varies by team and each member has only one speciality. The total numbers of biologists, geologists and explorers are equal. The following additional information is available:
• Every team has at least 2 members from each of the three skill sets.
• Teams C and D have 6 biologists each, and Team A has 6 geologists.
• Every team except A has more biologists than explorers.
• The number of explorers in each team is distinct and decreases in the order A, B, C, D and E.
The number of teams having more geologists than biologists is

Type in your answer (no options)

6 If $A = \begin{bmatrix} 2 & n \\ 4 & 1 \end{bmatrix}$ such that $A^3 = 27 \begin{bmatrix} 4 & q \\ p & r \end{bmatrix}$, then p + q + r equals

Type in your answer (no options)

7 Eight teams take part in a tournament where each team plays against every other team exactly once. In a particular year, one team got suspended after playing 3 matches, due to a disciplinary issue. The organizers decided to proceed, nonetheless, with the remaining matches. The total number of matches that were played in the tournament that year is

Type in your answer (no options)

8 Arpita and Nikita, working together, can complete an assigned job in 12 days. If Arpita works initially to complete 40% of the job, and the remaining job is completed by Nikita alone, then it takes 24 days to complete the job. The possible number of days that Nikita requires to complete the entire job, working alone, is

Type in your answer (no options)

9 Five teams A, B, C, D and E, each consisting of 15 members, are going on expeditions to five different locations. Each team includes members from three different skill sets: biologists, geologists and explorers. However, the number of members from each skill set varies by team and each member has only one speciality. The total numbers of biologists, geologists and explorers are equal. The following additional information is available:

- Every team has at least 2 members from each of the three skill sets.
- Teams C and D have 6 biologists each, and Team A has 6 geologists.
- Every team except A has more biologists than explorers.
- The number of explorers in each team is distinct and decreases in the order A, B, C, D and E.

The median number of biologists across five teams is

Type in your answer (no options)

10 If $\log_3(x^2-1)$, $\log_3(2x^2+1)$ and $\log_3(6x^2+3)$ are the first three terms of an arithmetic progression, then the sum of the next three terms of the progression is

Type in your answer (no options)

11 If m and n are two positive integers such that 7m + 11n = 200, then the minimum possible value of m + n is

Type in your answer (no options)

12 If a, b, c are three distinct natural numbers, all less than 100, such that |a – b| + |b – c| = |c – a|, then the maximum possible value of b is

Type in your answer (no options)

13 A circle of radius 13 cm touches the adjacent sides AB and BC of a square ABCD at M and N, respectively. If AB = 18 cm and the circle intersects the other two sides CD and DA at P and Q, respectively, then the area, in sq. cm, of triangle PMD is

Type in your answer (no options)

14 If the sum of the first 21 terms of the sequence $\ln\frac{a}{b}, \ln\frac{a}{b\sqrt{b}}, \ln\frac{a}{b^2}, \ln\frac{a}{b^2\sqrt{b}}, \ldots$ is $\ln\frac{a^m}{b^n}$, then the value of m + n is

Type in your answer (no options)

15 Monica, who is 18 years old, is one-third the age of her father. The age at which she will be half the age of her father is

Type in your answer (no options)

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Quantitative Ability (MCQ)

16 Anindita invests a total of 1 lakh rupees distributed across three schemes A, B and C for a period of two years. These schemes offer an interest rate of 10%, 8% and 12% per annum, respectively, each compounded annually. If the initial investment amount in scheme A is 30000 rupees and the total interest earned from all the three schemes during the first year is 10600 rupees, then the total interest earned, in rupees, from all the three schemes for the second year is

A 11748
B 10308
C 19708
D 22348

17 Let $S_1 = \{100, 105, 110, 115, \dots\}$ and $S_2 = \{100, 95, 90, 85, \dots\}$ be two series in arithmetic progression. If a_k and b_k are the k-th terms of S_1 and S_2, respectively, then $\sum_{k=1}^{20} a_k b_k$ equals

A 138250
B 137275
C 137225
D 135375

18 If $8x^2 - 2kx + k = 0$ is a quadratic equation in x, such that one of its roots is p times the other, and p, k are positive real numbers, then k equals

A $\left(\sqrt{p} + \frac{1}{\sqrt{p}}\right)^2$
B $2\left(p + \frac{1}{p}\right)$
C $\left(p + \frac{1}{p}\right)$
D $2\left(\sqrt{p} + \frac{1}{\sqrt{p}}\right)^2$

19 Let P(x) be a quadratic polynomial such that $\begin{vmatrix} P(0) & P(1) \\ P(0) & P(2) \end{vmatrix} = 0$. Let P(0) = 2 and P(1) + P(2) + P(3) = 14. Then P(4) equals

A −14
B 16
C 30
D −6

20 If $\log_{25}\left[5\log_3\left(1 + \log_3(1 + 2\log_2 x)\right)\right] = \frac{1}{2}$, then x is

A 4
B 2
C 8
D 16

21 The area of the triangle formed by the straight lines y = 0, 12x − 5y = 0 and 3x + 4y = 7 is

A $\frac{28}{9}$
B $\frac{35}{27}$
C $\frac{14}{9}$
D $\frac{35}{54}$

22 Consider a triangle with side lengths 4 metres, 6 metres and 9 metres. A dog runs around the triangle in such a way that the shortest distance of the dog from the triangle is exactly 1 metre. The total distance covered (in metres) by the dog in one round is

A $22 - 2\pi$
B 22
C $22 + 2\pi$
D $19 + 2\pi$

23 Given that $1+\frac{1}{2^2}+\frac{1}{3^2}+\frac{1}{4^2}+\cdots=\frac{\pi^2}{6}$, the value of $1+\frac{1}{3^2}+\frac{1}{5^2}+\frac{1}{7^2}+\ldots$ is

A $\frac{\pi^2}{6}-1$

B $2\frac{\pi}{6}$

C $\frac{\pi^2}{8}$

D $\frac{\pi^2}{12}$

24 Two swimmers, Ankit and Bipul, start swimming from the opposite ends of a swimming pool at the same time. Ankit can cover the length of the pool once in 10 minutes. Bipul can cover the length of the pool once in 15 minutes. They swim back and forth for 80 minutes without stopping. The number of times they meet each other is

A 6

B 8

C 7

D 5

25 If $a_1, a_2, \ldots, a_8$ are the roots of the equation $x^8+x^7+\cdots+x+1=0$, then the value of $a_1^{2025}+a_2^{2025}+\cdots+a_8^{2025}$ is

A 0

B 2

C 8

D 4

26 Which of the following numbers is divisible by $3^{10}+2$?

A $3^{20}+4$

B $3^{20}+8$

C $3^{30}+2$

D $3^{30}+8$

27 A circle touches the y-axis at (0, 4) and passes through the point (−2, 0). Then the radius of the circle is

A 4

B 5

C 7

D 6

28 If $y=a+b\log_e x$, then which of the following is true?

A $\log_e y$ is proportional to x

B $\frac{1}{y-a}$ is proportional to x^b

C y − a is proportional to x^b

D e^y is proportional to x^b

29 Let A(1, 3) and B(5, 1) be two points. If a line with slope m intersects AB at an angle of 45°, then the possible values of m are

A $5, -\frac{1}{5}$

B $7, \frac{1}{7}$

C $3, \frac{1}{3}$

D $-3, \frac{1}{3}$

30 The number of integers greater than 5000 and divisible by 5 that can be formed with the digits 1, 3, 5, 7, 8, 9 where no digit is repeated is

A 120

B 180

C 276

D 240

31 Area of a regular octagon inscribed in a circle of radius 1 unit is

A $2\sqrt{2}$ **B** $\frac{9}{2\sqrt{2}}$

C $\sqrt{10}$ **D** $2+\sqrt{2}$

32 The sum of the first 5 terms of a geometric progression is the same as the sum of the first 7 terms of the same progression. If the sum of the first 9 terms is 24, then the 4th term of the progression is

A −48 **B** −24

C 48 **D** 24

33 The remainder when $11^{1011}+1011^{11}$ is divided by 9 is

A 8 **B** 7

C 0 **D** 9

34 The set of all values of x satisfying the inequality \displaystyle \log_{\left(x+\frac1x\right)}\left[\log_2\left(\frac{x-1}{x+2}\right)\right]>0 is

A Null set **B** (2, 5)

C (5, ∞) **D** (−5, −2)

35 Let $f(x)=a^2x^2+2bx+c$ where a ≠ 0, b, c are real numbers and x is a real variable. Then

A f(x) has a maximum and a minimum 2 **B** f(x) has no minimum and no maximum

C f(x) has a minimum and no maximum **D** f(x) has a maximum and no minimum

36 A natural number n lies between 100 and 400, and the sum of its digits is 10. The probability that n is divisible by 4 is

A $\frac{1}{4}$ **B** $\frac{7}{27}$

C $\frac{1}{3}$ **D** $\frac{2}{9}$

37 In triangle ABC, AB = AC = x, ∠ABC = θ and the circumradius is equal to y. Then $\frac{x}{y}$ equals

A $2\cos\theta$ **B** $2\sin\theta$

C $\sin\theta$ **D** $\cos\theta$

38 Let A and B be two finite sets such that n(A − B), n(A ∩ B), n(B − A) are in an arithmetic progression. Here n(X) denotes the number of elements in a finite set X. If n(A ∪ B) = 18, then n(A) + n(B) is

A 30 **B** 27

C 36 **D** 24

39 Suppose a, b and c are three real numbers such that Max(a, b, c) + Min(a, b, c) = 15, and Median(a, b, c) − Mean(a, b, c) = 2. Then the median of a, b and c is

A 11 **B** 10

C 10.5 **D** 9.5

40 A and B take part in a rifle shooting match. The probability of A hitting the target is 0.4, while the probability of B hitting the target is 0.6. If A has the first shot, post which both strike alternately, then the probability that A hits the target before B hits it is

A $\frac{9}{19}$ **B** $\frac{1}{2}$

C $\frac{2}{3}$ **D** $\frac{10}{19}$

Directions

The table below gives the monthly sales (in lakhs of rupees) and the value of products returned by the customers (as a percentage of sales) of an e-commerce company for three product categories for one year. Net sales (in lakhs of rupees) is defined as the difference between sales and the value of products returned (in lakhs of rupees).

Month	Sales (in lakhs of rupees)			Value of products returned (% of sales)		
	Apparel	Footwear	Electronics	Apparel	Footwear	Electronics
January	262	104	289	13%	7%	2%
February	279	113	387	16%	9%	3%
March	236	121	283	20%	7%	2%
April	258	58	325	16%	8%	1%
May	249	69	359	12%	6%	4%
June	230	111	321	19%	5%	3%
July	244	119	341	17%	9%	4%
August	252	60	336	16%	6%	2%
September	288	118	355	10%	9%	5%
October	222	108	383	15%	8%	2%
November	228	93	282	14%	9%	4%
December	221	86	268	18%	10%	1%

41 By what percentage did the net sales for June increase as compared to May in the Footwear category?

A 18.97 percent **B** 62.58 percent

C 60.87 percent **D** 7.21 percent

42 Among the following four months, for which month was the value of the Footwear returned (in lakhs of rupees) the highest?

A September
B July
C June
D March

43 Which month had the highest percentage decline in monthly sales as compared to the previous month for the Apparel category?

A October
B March
C December
D June

44 For which categories did the value of the products returned (as a percentage of sales) increase for three consecutive months?

A Only Electronics
B Both Apparel and Footwear
C Only Apparel
D Only Footwear

45 Among the following four months, for which month was the contribution of the Apparel category in the total monthly sales the highest?

A August
B January
C April
D December

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Verbal Ability & Reading Comprehension

Directions

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

Meta is recalibrating content on its social media platforms as the political tide has turned in Washington, with Mark Zuckerberg announcing last week that his company plans to fire its US fact-checkers. Fact-checking evolved in response to allegations of misinformation and is being watered down in response to accusations of censorship. Social media does not have solutions to either. Community review - introduced by Elon Musk at X and planned by Zuckerberg for Facebook and Instagram - is not a significant improvement over fact-checking. Having Washington lean on foreign governments over content moderation does not benefit free speech. Yet, that is the nature of the social media beast, designed to amplify bias.

Information and misinformation continue to jostle on social media at the mercy of user discretion. Social media now has enough control over all other forms of media to broaden its reach. It is the connective tissue for mass consumption of entertainment, and alternative platforms are reworking their engagement with social media. Technologies are shaping up to drive this advantage further through synthetic content targeted precisely at its intended audience. Meta's algorithm will now play up politics because it is the flavour of the season.

The Achilles' Heel of social media is informed choice which could turn against misinformation. Its move away from content moderation is driven by the need to be more inclusive, yet unfiltered content can push users away from social media towards legacy forms that have better moderation systems in place. Lawmakers across the world are unlikely to give social media a free run, even if Donald Trump is working on their case. Protections have already been put in place across jurisdictions over misinformation. These may be difficult to dismantle, even if the Republicans pull US-owned social media companies further to the right. Media consumption is, in essence, evidence-based judgement that mediums

must adapt to. Content moderation, not free speech, is the adaptation mechanism. Musk and Zuckerberg are not exempt.

46 The writer implies that

A social media can never be discarded by its users.

B older forms of media will regain users because of their controls.

C social media's innate strength is the user's inability to fact check.

D uncensored content will always have more appeal than controlled content.

47 The writer argues that social media

A has become the preferred way to access entertainment.

B is in a difficult position because it cannot adapt to new policies.

C remains unaffected by global debates amongst lawmakers on misinformation.

D flourishes because it can publish any material.

48 Technologies are enabling social media to

A accept the current trends as emphasised by algorithms.

B readjust its interaction with competitors.

C understand that algorithms cannot control its content.

D enlarge its sphere of influence and persuasion.

49 Social media has succeeded in

A controlling other media that depend on it.

B finding alternative means for fact-checking.

C becoming independent of other media.

D ignoring technology and artificial content.

50 The writer's conclusion is that information available on social media is linked to

A the policies of the governments in power.

B the need for deregulation.

C the global legal systems' support of free speech.

D the individual's right to free speech.

51 The inherent downside associated with social media is that it

A creates and spreads much innate and acquired prejudice.

B does not address the problem of the digital divide.

C results in unremitting expansion of freedom of expression.

D reinforces existing objectivity among the users.

Directions

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

According to the French philosopher Jean Baudrillard, commodities available for consumption are not inherently negative things. Baudrillard tried to interpret consumption in modern societies by engaging with the 'cargo myth' prevalent among the indigenous Melanesian people living in the South Pacific. The Melanesians did not know what aeroplanes were. However, they saw that these winged entities descended from the air for white people and appeared to make them happy. They also noted that aeroplanes never descended for the Melanesian people.

The Melanesian natives noted that the white people had placed objects similar to the aeroplane on the ground. They concluded that these objects were attracting the aeroplanes in the air and bringing them to the ground. Through a magical process, the aeroplanes were bringing plenty to the white people and making them happy. The Melanesian people concluded that they would need to place objects that simulated the aeroplane on the ground and attract them from the air. Baudrillard believes that the cargo myth holds an important analogy for the ways in which consumers engage with objects of consumption.

According to Baudrillard, the modern consumer "sets in place a whole array of sham objects, of characteristic signs of happiness, and then waits for happiness to alight". For instance, modern consumers believe that they will get happiness if they buy the latest available version of a mobile phone or automobile. However, consumption does not usually lead to happiness. While consumers should ideally be blaming their heightened expectations for their lack of happiness, they blame the commodity instead.

They feel that they should have waited for the next version of a mobile phone or automobile before buying the one they did. The version they bought is somehow inferior and therefore cannot make them happy. Baudrillard argues that consumers have replaced 'real' happiness with 'signs' of happiness. This results in the endless deferment of the arrival of total happiness.

In Baudrillard's words, "in everyday practice, the blessings of consumption are not experienced as resulting from work or from a production process; they are experienced as a miracle". Modern consumers view consumption in the same magical way as the Melanesian people viewed the aeroplanes in the cargo myth. Television commercials also present objects of consumption as miracles. As a result, commodities appear to be distanced from the social processes which lead to their production. In effect, objects of consumption are divorced from the reality which produces them.

52 What is Baudrillard's position on consumption?

A It is an irrational process.

B It is a positive process.

C It is a utilitarian process.

D It is an egalitarian process.

53 Which of the following is an argument made by Baudrillard?

A Production and consumption are magical processes.

B Television commercials are at the heart of unhappiness experienced by consumers.

C Melanesian people coped with the inequality of colonialism by creating myths.

D Consumers value signs more than the real.

54 How does Baudrillard engage with the cargo myth?

A He uses it to describe the suffering of Indigenous people.

B He uses it to show that consumers should consume more serious objects.

C He uses it to show that consumption is a blessing.

D He uses it as a metaphor to critique modern consumption.

55 What is Baudrillard's position on total happiness?

A It results from ethical consumption.

B It is perpetually delayed.

C It prioritises production over consumption.

D It comes with patience and waiting.

56 How can consumption be made more satisfying?

A By rejecting colonialism and all other forms of economic oppression.

B By banning television commercials that promise real happiness.

C By recognising that commodities produce miraculous change.

D By understanding the connection between production and consumption.

57 Why are consumers unhappy with commodities that they have just bought?

A Because television commercials do not create enough hype about commodities.

B Because they focus on improved functionality of commodities.

C Because they have exaggerated expectations of commodities.

D Because the Law of Diminishing Marginal Commodities comes into play.

Directions

Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

58 The labourers who were fired broke into the office building and destroyed some of the machinery. Rather than finding a solution to their problems, they _____.

A extenuated the circumstance

B exacerbated the situation

C exaggerated their hardships

D extended their troubles

Directions
Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

59 We hope that the government's new policies will _____ a period of economic growth.

A set in
B usher in
C turn up
D set forth

Directions
Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

60 Everyone wondered how the travel vlogger could go around the world all through the year and _____.

A manage his itinerary life style
B manage his itinerant life style
C manage his iterative life style
D manage his itinerary in his life style

Directions
Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

61 Deepak is an unpleasant person, but we all _____ because his sister is a close friend of ours.

A put him down
B put up with him
C put him aside
D put along with him

Directions
Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

62 Without a doubt, the widespread use of renewable energy is a key solution to climate change. However, it is not a _____, as efforts in conservation are equally crucial.

A silver lining
B red herring
C silver bullet
D dead ringer

Directions
Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

63 When she inherited some jewellery from a distant relative, she had no idea of its worth and decided _____.

A to have it apprised
B to get an approval
C to have it appraised
D to get it appreciated

Directions
Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

64 There are so many instances of one or more deer crossing the road, or just standing in the middle of the road, or else _____; it is like the deer cannot hear the noise of the engines or see the headlights.

A staggering with the road
B bounding across the road
C foraging beneath the road
D jumping under the road

Directions
In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

65 If the President knew that his allies would let him down so suddenly, he would have handled them with the greatest care.

A If the President could know beforehand that his allies would let him down
B Had the President known that his allies would let him down
C Had the President knowledge that his allies would let him down
D If the President knew that his allies can let him down

Directions
In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

66 Among scientists, the discovery of the double helix structure of DNA and the genetic code it incorporates is widely regarded to be one of the most significant scientific discovery of the twentieth century.

A regarded as one of the most significant scientific discoveries
B regarded like one of the most significant scientific discovery
C regarded being one of the most significant scientific discoveries
D regarded for being one of the most significant scientific discoveries

Directions
In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

67 Thank goodness, the damage to the car was neglectful.

A was neglectable
B was negligible
C was neglecting
D was negligent

Directions

In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

68 When I had to leave town due to office work, I <u>had my brother to give food to my dog</u> twice a day.

A had my brother feed my dog

B had my brother giving food to my dog

C had my brother who fed my dog

D had my brother to feed my dog

Directions

In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

69 Although the new policy aims to <u>increase efficiency, reducing costs, and enhancing employee satisfaction</u>, some employees feel that the changes are too abrupt and poorly communicated.

A increase efficiency, reduce costs, and enhance employee satisfaction

B increasing efficiency, reducing of costs, and enhancing of employee satisfaction

C increase efficiency, reducing the costs and enhanced employee satisfaction

D increase the efficiency, reduce the costs and enhancing employee satisfaction

Directions

Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that is most logically appropriate to complete the paragraph.

70 A report published in Lancet Diabetes and Endocrinology has called for an overhaul of our understanding of obesity. An over-reliance on using Body Mass Index [BMI] as a metric has the peculiar effect of leading to both underdiagnosis and overdiagnosis of the condition. _____. BMI does not give accurate information about how fat is distributed in an individual's body. It frequently fails to capture the true state of health of an individual. A person's BMI may indicate they are "obese", but their organs and bodily functions may be absolutely normal. Every individual is a unique constellation — not only of genes and other biological variables, but also socio-economic conditions and habits.

A BMI reading can help the doctor to accurately prescribe the appropriate dosage to reduce fat

B This is because BMI does not provide a reliable picture of health, nor any direct measure of fat

C Further, much of the information on diabetes, obesity or BMI available on social media is misleading

D Obesity is the end result of multiple factors and BMI can pinpoint the cause of the problem

Directions

Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that is most logically appropriate to complete the paragraph.

71 As globalization held sway over the world, communities, which used to live in relative isolation, sought access to the wider world, and in the process, they parted with their own language and adopted a new lingua franca. The loss of language, however, does not merely mean the loss of a mode of communication or the loss of a few thousand words. _____. So, when a language dies, a way of thinking dies with it.

A Languages exist not only for the purposes of practical communication; they convey a linguistic community's entire mindset and its culture

B A potentially endangered language can sometimes appear to be thriving, or on the other hand, it can show signs of declining

C A certain school of thought regrets the demise of local languages but in recent times revival movements have emerged across the world, especially in India

D Since evolution and change in languages is a part of history, most of the languages spoken today would be scarcely recognizable from what they were a few thousand or maybe even a few hundred years ago

Directions

Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that is most logically appropriate to complete the paragraph.

72 An island in Japan boasts of numerous dairy farms that own nearly one million cows, and supplies 70% of the milk sold in the country. These dairy farms have now begun to use cow manure to produce hydrogen. The methane from cow manure mingles with steam in a high temperature environment to produce hydrogen, which is used to electrify the local zoo. _____.

A It is a case study of a certain animal that is useful in providing energy for several other animals

B The Indian government too, should replicate this, and use such technology to produce hydrogen

C This is an exemplary way of creating a sustainable source of energy using innovative technology

D This shows how Japan has always used technology to help animals

Directions

Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that is most logically appropriate to complete the paragraph.

73 On the first day of January 2025, the Indian Meteorological Department [IMD] announced that 2024 was the hottest year on record. A study by the Council on Energy, Environment and Water shows that nearly eight out of ten Indians live in districts that are at risk of either a flood, a cyclone, or a drought. Nearly twenty three States in India are heatwave-prone. _____. In the summer of 2024, India recorded more than 44,000 cases of heatstroke and over 300 heat-related mortalities, as per the bulletin of the Ministry of Health and Family Welfare. Water reservoirs and the energy demand that keeps India powered are impacted too. During a ten-day long heatwave in Delhi, peak power demand was 16% higher than the previous year.

A However, the people of these districts are given sufficient compensation for loss of life and property

B The increasing heat stress remains a major challenge, affecting public health and economic productivity

C According to the Council, more than 20% of the population is not affected by climate change

D The record-breaking heat of the summer of 2024 resulted in an unpredictable and delayed monsoon

Directions

Some of the sentences below have words that are missing. Choose the best option from those given below to complete them.

74 The notion of personhood is _____ on something more than a particular type of genetic material within human beings: it arises only with the larger-scale structural _____ of that material, which permits capacities like _____, thought and moral agency.

A premised; organisation; consciousness

B interdependent; division; differentiation

C built; distribution; calibration

D dependent; disorganisation; deconstruction

Directions

Some of the sentences below have words that are missing. Choose the best option from those given below to complete them.

75 While Curcumin, which is an _____ found in turmeric, helps to reduce _____, extremely high doses of it can _____ headache and nausea.

A alkali; infection; promote

B ingredient; inflammation; induce

C alchemy; injury; cause

D enzyme; abrasion; infuse

Directions
Some of the sentences below have words that are missing. Choose the best option from those given below to complete them.

76 Art can be _____ because it encourages individuals to express their emotions through a creative outlet, allowing them to process complex feelings, reduce stress, and _____ self-awareness.

A therapeutic; enhance
B acceptable; disturb
C avoidable; mitigate
D pleasing; decrease

Directions
Some of the sentences below have words that are missing. Choose the best option from those given below to complete them.

77 Psychologists urge users to remember that social media rarely reflects the full complexity of real life. Influencers often _____ a carefully curated online persona, which can _____ unrealistic standards and occasionally _____ negative self-comparisons amongst their followers.

A endorse; foster; provoke
B advocate; perpetuate; stimulate
C maintain; generate; trigger
D profess; inspire; release

Directions
Some of the sentences below have words that are missing. Choose the best option from those given below to complete them.

78 Since chronic stress can _____ the immune system, making individuals more susceptible to illness and _____ their overall well-being, healthcare practitioners often recommend mindfulness practices and proper sleep to _____ these negative effects.

A undermine; elevate; impede
B compromise; impair; counter
C paralyse; improve; diminish
D endanger; preserve; decrease

Directions
Some of the sentences below have words that are missing. Choose the best option from those given below to complete them.

79 Astronauts who stayed for an _____ period of time at the International Space Station displayed a remarkable level of _____ endurance and mental _____.

A extensive; dysfunctional; agility
B expanded; stern; acuity
C explicit; stoic; integrity
D extended; physical; resilience

Directions

Read the following transcript and choose the answer that is closest to each of the questions that are based on the transcript.

Lucia Rahilly (Global Editorial Director, The McKinsey Podcast): Today we're talking about the next big arenas of competition, about the industries that will matter most in the global business landscape, which you describe as arenas of competition. What do we mean when we use this term?

Chris Bradley (Director, McKinsey Global Institute): If I go back and look at the top ten companies in 2005, they were in traditional industries such as oil and gas, retail, industrials, and pharmaceuticals. The average company was worth about $250 billion. If I advance the clock forward to 2020, nine in ten of those companies have been replaced, and by companies that are eight times bigger than the old guards.

And this new batch of companies comes from these new arenas or competitive sectors. In fact, they're so different that we have a nickname for them. If you're a fan of Harry Potter, it's wizards versus muggles. Arena industries are wizard- ish; we found that there's a set of industries that play by very different set of economic rules and get very different results, while the rest, the muggles (even though they run the world, finance the world, and energize the world), play by amore traditional set of economic rules.

Lucia Rahilly: Could we put a finer point on what is novel or different about the lens that you applied to determine what's a wizard and what's a muggle?

Chris Bradley: Wizards are defined by growth and dynamism. We looked at where value is flowing and the places where value is moving. And where is the value flowing?

What we see is that this set of wizards, which represent about ten percent of industries, hog 45 percent of the growth in market cap. But there's another dimension or axis too, which is dynamism. That is measured by a new metric we've come up with called the "shuffle rate." How much does the bottom move to the top?

It turns out that in this set of wizard-ish industries, or arenas, the shuffle rate is much higher than it is in the traditional industry.

Lucia Rahilly: So, where are we seeing the most profit?

Chris Bradley: The economic profit, which is the profit you make minus the cost for the capital

you employ is in the wizard industries. It's where R&D happens; they're two times more R&D intensive. They're big stars, the nebulae, where new business is born.

80 Which of the following best and correctly summarizes the main idea of the conversation?

A The global economy is shifting back towards traditional industries, as they offer more stable returns.

B Traditional industries are consistently more profitable than newer, "wizard-ish" industries.

C The terms "wizard" and "muggle" are used to describe the magical elements of business success.

D Newer, dynamic industries, termed "wizards," are experiencing significantly greater growth and profit compared to traditional industries.

81 In the context of the conversation, the term "arenas of competition" refers to

A government regulations that control business competition.

B specific companies that are considered to be powerful competitors.

C broad categories of industries where companies engage in competitive activities.

D physical locations where businesses compete.

82 "Wizard" industries are characterized by

A a higher concentration of economic profit and research and development.

B a reliance on traditional economic rules and practices.

C a slower rate of market capitalization growth.

D lower research and development spending.

83 In the context of the conversation, "dynamism" most closely refers to

A the stability and predictability of traditional industries.

B the never-changing reliance on established and unchanging business practices.

C the slow, gradual growth and morphing of established companies.

D the rapid and frequent changes in leadership and market position within an industry.

84 "Muggles" refers to industries that

A operate under traditional economic principles.

B exhibit high levels of market capitalization growth.

C are characterized by rapid and frequent changes.

D are primarily focused on technological innovation.

85 Which one of the following does "shuffle rate" not measure?

A Volatility of market leadership.

B Relative change within an industry.

C Overall profitability of traditional industries.

D Churn within the arena of competition.

Directions

The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers (for example, 3412).

86 1. Among its major urban centres, Harappa and Mohenjo-Daro stand out as prime examples of this architectural prowess, revealing large public structures, residential areas, and sophisticated water management systems indicative of a complex societal structure.
2. Showing remarkable sophistication for its time, this ancient culture developed meticulously planned cities, complete with advanced sanitation systems and intricate grid layouts that underscore their profound understanding of urban design and engineering.
3. Economically, the civilization thrived on a foundation of extensive trade networks, connecting them with distant lands, alongside a robust agricultural system that sustained their large populations and facilitated surplus production.
4. Despite its impressive achievements and longevity, the reasons behind the eventual decline of this remarkable civilization remain largely enigmatic, prompting ongoing research and speculation among historians and archaeologists.
5. The Indus Valley Civilization, flourishing in the Bronze Age, represents one of humanity's earliest urban societies, evidenced by archaeological discoveries dating back thousands of years.

Type in your answer (no options)

Directions

The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers (for example, 3412).

87 1. When we take time to notice these moments, we discover hidden beauty that sparks our creative thoughts because creativity isn't just about rare, amazing events — it's also about finding the special in the ordinary.
2. Creativity is often seen as the ability to look at the world in a new way — to turn everyday sights, sounds, and experiences into art or ideas.
3. In fact, inspiration can come from small details of daily life: the gentle warmth of morning sunlight on a kitchen counter, the steady sound of traffic outside, or the brief smile of a stranger on a busy street.
4. Many people wrongly think that true creativity only comes from big ideas or exciting adventures.

Type in your answer (no options)

Directions

The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers (for example, 3412).

88 1. Seven of the ten worst affected countries (including India) are low- and middle-income countries.
2. Between 1993 and 2022, India was the sixth worst affected country in terms of fatalities and damage sustained from extreme weather events wrought by the climate crisis.
3. High income nations, whose economies are founded in industrial era use of fossil fuels, meanwhile, insist that growing economies, especially India and China, shoulder greater responsibility.
4. This reinforces the developing world's contention that it has had to bear a disproportionate burden of climate afflictions despite having contributed little to the crisis.

Type in your answer (no options)

Directions

The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers (for example, 3412).

89 1. Using the wonders of Artificial Intelligence (AI), they quickly improved upon those skills to become far more dexterous.
2. Inside a robotics laboratory of the Toyota Research Institute, a group of robots is busy cooking. There is nothing special about that; robotic chefs have been around for a while.
3. Despite their extraordinary culinary capabilities, these robots are not destined for a career in catering.
4. But these robots are more proficient than most: flipping pancakes, slicing vegetables, and making pizzas with ease.
5. The difference is that instead of being laboriously programmed to carry out their tasks, the Toyota robots have been taught only a basic set of skills.

Type in your answer (no options)

Directions

The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers (for example, 3412).

90 1. In drought conditions, water often depletes in the topsoil and remains accessible only in the deeper subsoil layers.
2. A new study gives new insights into how the acid changes root growth angles to enable plants to reach out deeper subsoils in search of water.
3. Plants rely on their root systems, the primary organs for interacting with soil, to actively seek water.
4. Abscisic acid plays an important role in helping plants adapt to these challenging conditions.

Type in your answer (no options)

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Answer Key

Quantitative Ability (Short Answer)

1 **11**	2 **40**	3 **30**	4 **4**	5 **2**	6 **12**	7 **24**	8 **20**	9 **6**	10 **15**
11 **20**	12 **98**	13 **153**	14 **147**	15 **36**					

Quantitative Ability (MCQ)

16 **A**	17 **A**	18 **D**	19 **D**	20 **D**	21 **C**	22 **D**	23 **C**	24 **C**	25 **C**
26 **D**	27 **B**	28 **D**	29 **D**	30 **C**	31 **A**	32 **B**	33 **A**	34 **A**	35 **C**
36 **B**	37 **B**	38 **D**	39 **C**	40 **D**	41 **B**	42 **B**	43 **A**	44 **B**	45 **C**

Verbal Ability & Reading Comprehension

46 **B**	47 **A**	48 **D**	49 **A**	50 **A**	51 **A**	52 **A**	53 **D**	54 **D**	55 **B**
56 **D**	57 **C**	58 **B**	59 **B**	60 **B**	61 **B**	62 **C**	63 **C**	64 **B**	65 **B**
66 **A**	67 **B**	68 **A**	69 **A**	70 **B**	71 **A**	72 **C**	73 **B**	74 **A**	75 **B**
76 **A**	77 **C**	78 **B**	79 **D**	80 **D**	81 **C**	82 **A**	83 **D**	84 **A**	85 **C**
86 **52134**	87 **2431**	88 **2143**	89 **24513**	90 **3142**					

Solutions

Quantitative Ability (Short Answer)

1 **Answer: 11**

Correct answer: **11**.

2 **Answer: 40**

Correct answer: **40**.

3 **Answer: 30**

Correct answer: **30**.

4 **Answer: 4**

Correct answer: **4**.

5 **Answer: 2**

Correct answer: **2**.

6 **Answer: 12**

Correct answer: **12**.

7 **Answer: 24**

Correct answer: **24**.

8 **Answer: 20**

Correct answer: **20**.

9 **Answer: 6**

Correct answer: **6**.

10 **Answer: 15**

Correct answer: **15**.

11 **Answer: 20**

Correct answer: **20**.

12 **Answer: 98**

Correct answer: **98**.

13 **Answer: 153**

Correct answer: **153**.

14 **Answer: 147**

Correct answer: **147**.

15 **Answer: 36**

Correct answer: **36**.

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Quantitative Ability (MCQ)

16 **Answer: A**

Correct answer: **A — 11748**.

17 **Answer: A**

Correct answer: **A — 138250**.

18 **Answer: D**

Correct answer: **D** — $2\left(\sqrt{p}+\frac{1}{\sqrt{p}}\right)^2$.

19 **Answer: D**

Correct answer: **D — −6**.

20 **Answer: D**

Correct answer: **D — 16**.

21 **Answer: C**

Correct answer: **C** — $\frac{14}{9}$.

22 **Answer: D**

Correct answer: **D** — $19+2\pi$.

23 **Answer: C**

Correct answer: **C** — $\frac{\pi^2}{8}$.

24 **Answer: C**

Correct answer: **C — 7**.

25 **Answer: C**

Correct answer: **C — 8**.

26 **Answer: D**

Correct answer: **D** — $3^{30}+8$.

27 **Answer: B**

Correct answer: **B — 5**.

28 **Answer: D**

Correct answer: **D — e^y is proportional to x^b.**

29 **Answer: D**

Correct answer: **D — $-3,\ \frac{1}{3}$.**

30 **Answer: C**

Correct answer: **C — 276.**

31 **Answer: A**

Correct answer: **A — $2\sqrt{2}$.**

32 **Answer: B**

Correct answer: **B — −24.**

33 **Answer: A**

Correct answer: **A — 8.**

34 **Answer: A**

Correct answer: **A — Null set.**

35 **Answer: C**

Correct answer: **C — f(x) has a minimum and no maximum.**

36 **Answer: B**

Correct answer: **B — $\frac{7}{27}$.**

37 **Answer: B**

Correct answer: **B — $2\sin\theta$.**

38 **Answer: D**

Correct answer: **D — 24.**

39 **Answer: C**

Correct answer: **C — 10.5.**

40 **Answer: D**

Correct answer: **D — $\frac{10}{19}$.**

41 **Answer: B**

Correct answer: **B — 62.58 percent**.

42 **Answer: B**

Correct answer: **B — July**.

43 **Answer: A**

Correct answer: **A — October**.

44 **Answer: B**

Correct answer: **B — Both Apparel and Footwear**.

45 **Answer: C**

Correct answer: **C — April**.

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Verbal Ability & Reading Comprehension

46 **Answer: B**

Correct answer: **B — older forms of media will regain users because of their controls.**.

47 **Answer: A**

Correct answer: **A — has become the preferred way to access entertainment.**.

48 **Answer: D**

Correct answer: **D — enlarge its sphere of influence and persuasion.**.

49 **Answer: A**

Correct answer: **A — controlling other media that depend on it.**.

50 **Answer: A**

Correct answer: **A — the policies of the governments in power.**.

51 **Answer: A**

Correct answer: **A — creates and spreads much innate and acquired prejudice.**.

52 **Answer: A**

Correct answer: **A — It is an irrational process.**.

53 **Answer: D**

Correct answer: **D — Consumers value signs more than the real.**.

54 **Answer: D**

Correct answer: **D — He uses it as a metaphor to critique modern consumption.**.

55 **Answer: B**

Correct answer: **B — It is perpetually delayed.**.

56 **Answer: D**

Correct answer: **D — By understanding the connection between production and consumption.**.

57 **Answer: C**

Correct answer: **C — Because they have exaggerated expectations of commodities.**.

58 **Answer: B**

Correct answer: **B — exacerbated the situation**.

59 **Answer: B**

Correct answer: **B — usher in**.

60 **Answer: B**

Correct answer: **B — manage his itinerant life style**.

61 **Answer: B**

Correct answer: **B — put up with him**.

62 **Answer: C**

Correct answer: **C — silver bullet**.

63 **Answer: C**

Correct answer: **C — to have it appraised**.

64 **Answer: B**

Correct answer: **B — bounding across the road**.

65 **Answer: B**

Correct answer: **B — Had the President known that his allies would let him down**.

66 **Answer: A**

Correct answer: **A — regarded as one of the most significant scientific discoveries**.

67 **Answer: B**

Correct answer: **B — was negligible**.

68 **Answer: A**

Correct answer: **A — had my brother feed my dog**.

69 **Answer: A**

Correct answer: **A — increase efficiency, reduce costs, and enhance employee satisfaction**.

70 **Answer: B**

Correct answer: **B — This is because BMI does not provide a reliable picture of health, nor any direct measure of fat**.

71 **Answer: A**

Correct answer: **A — Languages exist not only for the purposes of practical communication; they convey a linguistic community's entire mindset and its culture**.

72 **Answer: C**

Correct answer: **C — This is an exemplary way of creating a sustainable source of energy using innovative technology**.

73 **Answer: B**

Correct answer: **B — The increasing heat stress remains a major challenge, affecting public health and economic productivity**.

74 **Answer: A**

Correct answer: **A — premised; organisation; consciousness**.

75 **Answer: B**

Correct answer: **B — ingredient; inflammation; induce**.

76 **Answer: A**

Correct answer: **A — therapeutic; enhance**.

77 **Answer: C**

Correct answer: **C — maintain; generate; trigger**.

78 **Answer: B**

Correct answer: **B — compromise; impair; counter**.

79 **Answer: D**

Correct answer: **D — extended; physical; resilience**.

80 **Answer: D**

Correct answer: **D — Newer, dynamic industries, termed "wizards," are experiencing significantly greater growth and profit compared to traditional industries.**.

81 **Answer: C**

Correct answer: **C — broad categories of industries where companies engage in competitive activities.**.

82 **Answer: A**

Correct answer: **A — a higher concentration of economic profit and research and development.**.

83 **Answer: D**

Correct answer: **D — the rapid and frequent changes in leadership and market position within an industry.**.

84 **Answer: A**

Correct answer: **A — operate under traditional economic principles.**.

85 **Answer: C**

Correct answer: **C — Overall profitability of traditional industries.**.

86 **Answer: 52134**

Correct answer: **52134**.

87 **Answer: 2431**

Correct answer: **2431**.

88 **Answer: 2143**

Correct answer: **2143**.

89 **Answer: 24513**

Correct answer: **24513**.

90 **Answer: 3142**

Correct answer: **3142**.

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