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JIPMAT 2024

Previous Year Question Paper

100 Questions · Quantitative Aptitude · DI & Logical Reasoning · Verbal Ability & RC

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

Questions

Directions

For the following questions answer them individually

1 The points (2,2), (6,3) and (4,11) are vertices of :

A Equilateral triangle
B Isosceles triangle
C Right-angled triangle
D Scalene triangle

2 What will be the least number which when divided by 12, 21 and 35 leaves 6 as a remainder in each case?

A 426
B 326
C 536
D 436

3 A candidate scoring x% marks in an examination fails by 'a' marks while another candidate who scores y% marks, gets 'b' marks more than the minimum required pass marks. What is the maximum marks for the examination ?

A $\frac{100(a+b)}{x-y}$
B $\frac{100(a-b)}{x+y}$
C $\frac{100(a+b)}{y-x}$
D $\frac{100(a-b)}{x-y}$

4 An equilateral triangle ABC is inscribed in a circle of radius $20\sqrt{3}$ cm. The centroid of the triangle ABC is at a distance d from the vertex A. Then d is equal to?

A 15 cm
B 20 cm
C $20\sqrt{3}$ cm
D $30\sqrt{3}$ cm

5 An amount doubles itself at compound interest in 5 years. How many years will it take to make the amount 16 times itself ?

A 25
B 15
C 16
D 20

6 A company offers four types of successive discounts A - D on the marked price of an article. Arrange these successive discounts A - D in ascending order based on the final price of the article after discounts.
(A) 25% and 15% (B) 30% and 10% (C) 35% and 5% (D) 15% and 20%

A (A), (B), (D), (C)
B (C), (B), (A), (D)
C (B), (A), (D), (C)
D (C), (A), (B), (D)

7 A man sold $\frac{3}{5}$th of his articles at a gain of 20% and the remaining at the cost price. The gain earned in the transaction is

A 8%
B 14%
C 12%
D 16%

8 Given below are two statements :
Given that $a : b = 5 : 3$ and $b : c = 2 : 5$, then $(c - a)$ will be equal to
Statement I: $10(a + c)$
Statement II: $10a + 25b$
In the light of the above statements, choose the correct answer from the options given below :

A Both Statement I and Statement II are true
B Both Statement I and Statement II are false
C Statement I is true but Statement II is false
D Statement I is false but Statement II is true

9 The HCF and LCM of two numbers x and y are respectively 6 and 210. If x + y = 72, then $\frac{1}{x} + \frac{1}{y}$ is equal to

A $\frac{1}{35}$
B $\frac{3}{35}$
C $\frac{5}{35}$
D $\frac{2}{35}$

10 The average of five consecutive natural numbers is a. If the next two numbers are also included, how will the average vary?

A It shall increase by 1
B It shall increase by 1.4
C It shall remain the same
D It shall increase by 2

11 Match List I with List II

List - I(Expression)	List - II (Absolute Value)
(A) $\sqrt{15 \times 163 \div 5 - 89}$	(I) 105
(B) $\sqrt{15^2 + 11 \times 3^2}$	(II) 20
(C) $\sqrt{8^2 \times 7 \times 5^2 - 175}$	(III) 10
(D) $\sqrt{91 + \sqrt{70 + \sqrt{121}}}$	(IV) 18

Choose the correct answer from the options given below :

A (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
B (A) - (II), (B) - (III), (C) - (I), (D) - (IV)
C (A) - (II), (B) - (IV), (C) - (I), (D) - (III)
D (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

12 If the seven digit number 94a29b6 is divisible by 72, then what is the value of (2a + 3b) for a ≠ b ?

A 35
B 37
C 23
D 21

13 An equilateral triangle ABC is inscribed in a circle of radius $20\sqrt{3}$ cm. What is the length of the side of the triangle?

A 30 cm
B 40 cm
C 50 cm
D 60 cm

14 Given below are two statements :
In class 'X' of 30 students, 24 passed in first division; in another class 'Y' of 35 students, 28 passed in first division.
Statement I : Class 'X' has more percentage of students getting first division.
Statement II : Both classes have equal percentage of students getting first division.

A Both Statement I and Statement II are true
B Both Statement I and Statement II are false
C Statement I is true but Statement II is false
D Statement I is false but Statement II is true

15 Arrange the following fractions in descending order.
(A) $\frac{5}{9}$ (B) $\frac{7}{11}$ (C) $\frac{8}{15}$ (D) $\frac{11}{17}$

A (A), (B), (D), (C)
B (A), (C), (D), (B)
C (D), (B), (C), (A)
D (D), (B), (A), (C)

16 Simplify : $\frac{\sqrt[4]{0.0625}+\sqrt[3]{0.008}+\sqrt{0.09}-1}{\sqrt[3]{62.5\times\sqrt[5]{32}}}$

A 1.25
B $\frac{1}{5}$
C 0
D 24

17 If the roots of the equation $x^2-px+54=0$ are in the ratio 2 : 3, then value of p is:

A 18
B 21
C -21
D 15

18 If each side of a cube is decreased by 19% , then the decrease in surface area is :

A 40%
B 34.39%
C 38.4%
D 19%

19 Given below are two statements:
Statement I: $\frac{\cot 30^\circ+1}{\cot 30^\circ-1}=2(\cos 30^\circ+1)$
Statement II: $2\sin 45^\circ\cos 45^\circ-\tan 45^\circ\cot 45^\circ=0$

A Both Statement I and Statement II are true
B Both Statement I and Statement II are false
C Statement I is true but Statement II is false
D Statement I is false but Statement II is true

20 Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A) : The sum of n terms of the progression $1+\frac{1}{2}+\frac{1}{2^2}+\frac{1}{2^3}+\ldots$ is $\frac{2^{(n-1)}-1}{2^{(n-1)}}$

Reason (R) : The sum of a geometric series having n terms is given by $S_n=\frac{a(1-r^n)}{1-r}$, where a is the 1st term and r is the common ratio.

A Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of (A)

B Both Assertion (A) and Reason (R) are true but Reason (R) is NOT the correct explanation of (A).

C (A) is true but (R) is false.

D (A) is false but (R) is true.

21 A is 40% less efficient than B who can do the same work in 20% less time than C. If A and B together can complete 80% work in 12 days, then in how many days work 60% work can be completed by B and C together ?

A 2 days

B 4 days

C 8 days

D 16 days

22 A speaks the truth in 75% cases and B in 80% of the cases. In what percentage of cases are they likely to contradict each other in narrating the same incident?

A 5%

B 15%

C 35%

D 45%

23 By selling two articles for ₹ 800 , a person gains the cost price of three articles. The profit percent is :

A 125%

B 140%

C 120%

D 150%

24 A person travels three equal distances at a speed of 'a' km/hr, 'b' km/hr and 'c' km/hr respectively. What is the average speed for the whole journey?

A $\frac{abc}{3(ab+bc+ac)}$

B $\frac{abc}{ab+bc+ac}$

C $\frac{ab+bc+ac}{abc}$

D $\frac{3abc}{ab+bc+ac}$

25 If α and β are the roots of the equation $ax^2+bx+c=0$ then the value of $\frac{1}{a\alpha+b}+\frac{1}{a\beta+b}$ is:

A $\frac{a}{bc}$

B $\frac{b}{ac}$

C $\frac{c}{ab}$

D $\frac{q}{abc}$

26 The sides of four triangles are given below. Which of them forms a right triangle ?
(A) 20 cm, 22 cm, 24 cm (B) 15 cm, 32 cm, 37 cm (C) 11 cm, 60 cm, 61 cm (D) 6 cm, 8 cm, 10 cm

A (A) and (B) only

B (C) only

C (D) only

D (C) and (D) only

27 The factors of polynomial $x^3 - 6x^2 + 11x - 6$ are:

A (x + 1)(x + 2)(x + 3)

B (x - 1)(x + 2)(x + 3)

C (x - 1)(x - 2)(x - 3)

D (x - 1)(x - 2)(x + 3)

28 A circle, square, equilateral triangle and regular pentagon have the same areas. Arrange the following in ascending order based on their perimeters.
(A) Circle (B) Square (C) Equilateral triangle (D) Regular pentagon

A (C), (D), (B), (A)

B (A), (B), (C), (D)

C (A), (D), (B), (C)

D (D), (B), (C), (A)

29 If highest common factor of $x^2 - px - q$ and $5x^2 - 3px - 15q$ is (x − 3), then value of (p, q) will be :

A $\left(\frac{5}{3}, 4\right)$

B $\left(-\frac{5}{3}, -4\right)$

C $\left(\frac{5}{2}, \frac{3}{2}\right)$

D $\left(4, -\frac{3}{5}\right)$

30 If $\sin\theta + \cos\theta = \frac{\sqrt{7}}{2}$, then $\sin\theta - \cos\theta$ is equal to :

A 0

B $\frac{1}{2}$

C 1

D $\sqrt{2}$

31 Fifteen people from different places come together for a family reunion. Each one of them had two gifts each for every other person. When the gifts were exchanged they hugged each other. What is the difference between the number of hugs and the number of gifts exchanged?

A 315

B 545

C 330

D 11

32 In the following question, a Statement is given followed by Arguments I and II. Choose the best option. Statement: Should public holidays be declared on demise of important national leaders ?
Arguments:
I. No, such unscheduled holidays hamper national progress.
II. Yes, people would like to pay their homage to departed soul.

A Only argument I is strong.

B Only argument II is strong.

C Neither argument I nor II is strong.

D Both arguments I and II are strong.

33

Digit	8	3	0	7	4	6	9	2	5	1
Code	₹	H	R	A	M	%	L	K	E	#

Exception I:
If a number begins and ends with a non-zero odd digit, then the first and last digits are to be coded as Y and * respectively.
Exception II:
If a number begins and ends with an even digit (including zero), then the first and last digits are to be coded as β and X respectively.
Which of the following numbers can the code YH₹ME* represent?
(A) 138450 (B) 338457 (C) 538459 (D) 438458

A (A) and (C) only
B (B) and (D) only
C (C) and (D) only
D (B) and (C) only

34 A cashier has ₹ 620 in the denominations of two-rupee notes, ten-rupee notes and fifty-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he/she has ?

A 25
B 35
C 12
D 30

35 Five friends A, B, C, D and E travelled to five different cities; Pune, Kolkata, Delhi, Bengaluru and Mumbai by different modes of transport; bus, train, aeroplane, car and boat from Goa. Further, the following information is given :
(A) The person who travelled to Delhi did not travel by boat.
(B) C went to Bengaluru by car and B went to Kolkata by aeroplane.
(C) D travelled by boat and E travelled by train (D) Goa is not connected by bus to Delhi and Pune.
Now, which of the following pair of person and mode of transport is NOT correct?

A A - Bus
B B - Aeroplane
C D - Boat
D E - Car

36 In a certain code language, if GREEN is coded as 1677209 , then how would BLUE be coded in that language ?

A 723144
B 521122
C 723142
D 721144

37 Match List I with List II

List I (Pattern)	List II (Missing Term)
(A) 8,13,21,32,46,63, ?	(I) 40
(B) 20,80,30,60,40, ?, 50,20	(II) 101
(C) 0,2,3,5,8,10,15,17,24,26, ?	(III) 83
(D) 6,13,25,51, ?	(IV) 35

Choose the correct answer from the options given below :

A (A) - (III), (B) - (I), (C) - (II), (D) - (IV)

B (A) - (III), (B) - (I), (C) - (IV), (D) - (II)

C (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

D (A) - (IV), (B) - (I), (C) - (III), (D) - (II)

38 The main statement is followed by two conclusions. Select the one alternative that logically follows from the main statement.
Statement:
The use of non-conventional sources of energy will eliminate the energy crisis in the world.
Conclusions :
I. Modern technology is gradually replacing the conventional sources of energy.
II. The excessive exploitation of environment has led to depletion of conventional sources of energy.

A Only conclusion I follows

B Only conclusion II follows

C Neither conclusion I nor II follows

D Both conclusions I and II follow

39 Six girls are sitting in a circle facing towards the centre of the circle. Sonia is sitting opposite Radhika. Purnima is sitting to the right of Radhika but to the left of Deepti. Monika is sitting to the left of Radhika. Kamini is sitting to the right of Sonia and to the left of Monika. Now Deepti and Kamini, Monika and Radhika mutually exchange their positions. Who will be sitting to the left of Deepti ?

A Sonia

B Monika

C Radhika

D Purnima

40 Given below are two statements, one is labelled as Assertion (A) and the other is labelled as Reason (R). Assertion (A) :
When lightning strikes, the sound is heard a little after the flash is seen.
Reason (R) :
The velocity of light is greater than that of the sound.
In the light of the above statements, choose the correct answer from the options given below :

A Both Assertion (A) are true Reason (R) is the correct explanation of (A)

B Both Assertion (A) and Reason (R) are true but Reason (R) is NOT the correct explanation of (A)

C (A) is true but (R) is false

D (A) is false but (R) is true

41 A watch which gains uniformly is 2 minutes slow at 10 AM on Wednesday and 2½ minutes fast at 1 PM the following day. When will it show the correct time?

A 10:30 AM, Thursday

B 9:15 PM, Wednesday

C 10:30 AM, Wednesday

D 10:00 PM, Wednesday

42 There is a certain relationship between two given terms on one side of (: :) and one term is given on the other side of (::). Another term is to be found from the given alternatives having the same relation, with this term, as the terms of given pair.
AFHO : GBDJ :: CHFM : ?

A GBIM

B GBLD

C GPLD

D IDBH

43 Find the odd word among the following :

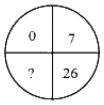
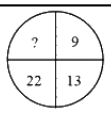
A Tuberculosis

B Diphtheria

C Measles

D Typhoid

44

	List I (Problem Figure)		List II (Missing Number/Character)
(A)		(I)	63
(B)		(II)	38
(C)		(III)	9
(D)		(IV)	233

Choose the correct answer from the options given below :

A (A) - (IV), (B) - (III), (C) - (I), (D) - (II)

B (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

C (A) - (III), (B) - (IV), (C) - (II), (D) - (I)

D (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

45 Find the pair of numbers that can replace the question mark (?) in the series given below :90, 180, 12, 50, 100, ?, ?, 3, 50, 4, 25, 2, 6, 30, 3.

A 20,75

B 200,150

C 150,1

D 120,30

46 Conscience' is related to 'Wrong' in the same way as 'Police' is related to:

A Court

B Law

C Discipline

D Crime

47 A cube is coloured red on all of its faces. It is then cut into 64 smaller cubes of equal size. Which of the following statements are correct?
(A) The number of smaller cubes with two surfaces painted is 36.
(B) The number of smaller cubes with one surface painted is 24.
(C) The number of smaller cubes with no surface painted is 8.
(D) The number of smaller cubes with at least two surfaces painted is 30.

A (A), (B) and (D) only

B (B),(C) and (D) only

C (B) and (C) only

D (A) and (D) only

48 Find the missing term that can replace the question mark (?) in the series given below : A2Y, B8V, D33R, ?, K765G.

A G134M

B H142M

C J176P

D G148M

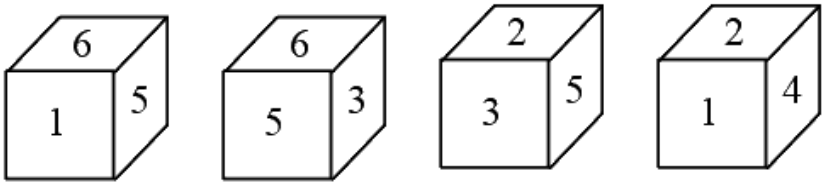
49 Pointing to a photograph, a woman says, 'this man's son's sister is my mother-in-law.' How is the woman's husband related to the man in photograph?

A Grandson
B Son
C Nephew
D Son-in-law

50 A square park PQRS of side 90 m is so located that its diagonal PR is from north to south and the corner Q is to the west of S. Radha and Mohan start walking along the sides from Q and R respectively in clockwise and anti- clockwise directions with speeds of 8 km/hr and 10km/hr . Where will they cross each other the second time ?

A On PS at a distance of 30 m from p
B On QR at a distance of 10 m from Q
C On PS at a distance of 30 m from S
D On QR at a distance of 10 m from R

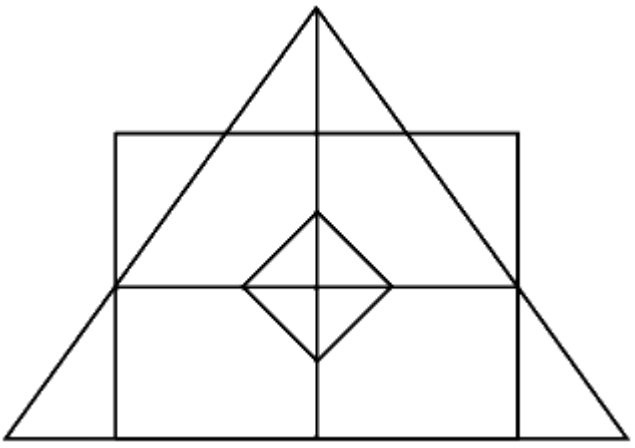
51 A cube has six numbers marked 1,2,3,4,5, and 6 on its faces. Four views of the cube are shown below :



What is the number on the face opposite the face showing 4?

A 1
B 6
C 3
D 5

52 Find the number of triangles in the following figure :

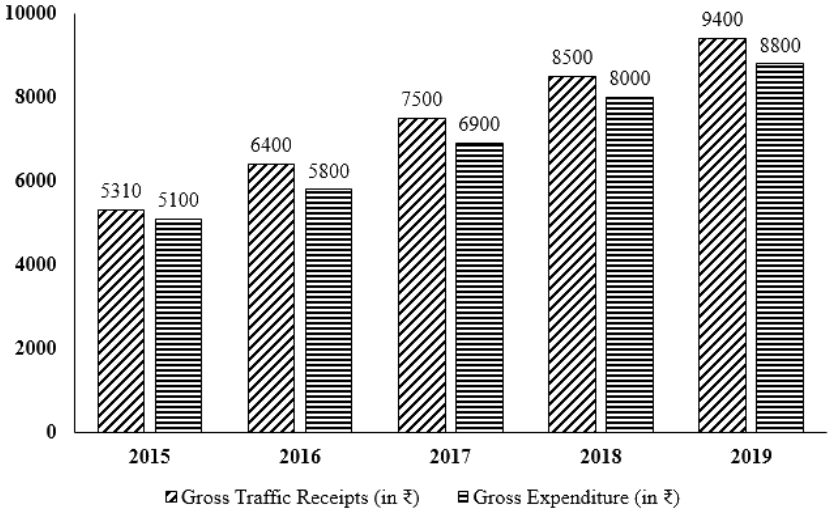


A 19
B 17
C 21
D 23

53 Unscramble the letters in the given words to generate meaningful words and then find the odd one out. POROT, ROPUG, BMO, SALCS

A POROT
B ROPUG
C BMO
D SALCS

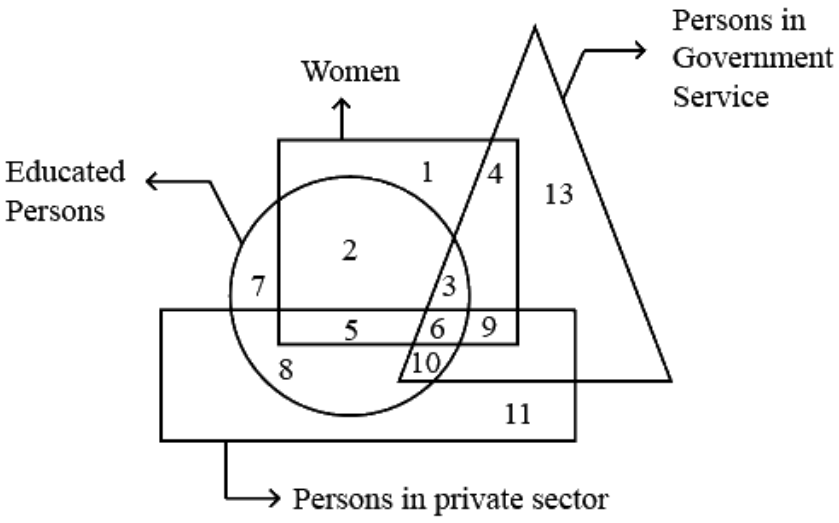
54 The following graph shows Gross Traffic Receipts and Total Expenditure (in ₹) from 2015 to 2019 .



In order to make a profit of 10%, what should have been the approximate gross traffic receipts in 2016, total expenditure remaining the same ?

A 5667
B 5876
C 6444
D 7667

55 Study the diagram given below and find the number which represents the uneducated women, who have a government job as well as a job in private sector?



A 9
B 12
C 6
D 4

56 The following pie chart shows percentage expenses on various items during book production. The central angle corresponding to the sector on 'Printing cost' is more than that of 'Advertisement charges' by

A 72o

B 61.2o

C 60o

D 54.8o

57 The following pie chart shows percentage expenses on various items during book production. If the miscellaneous charges are ₹ 6,000 , how much more are 'Binding and Cutting charges' than 'Royalty'?

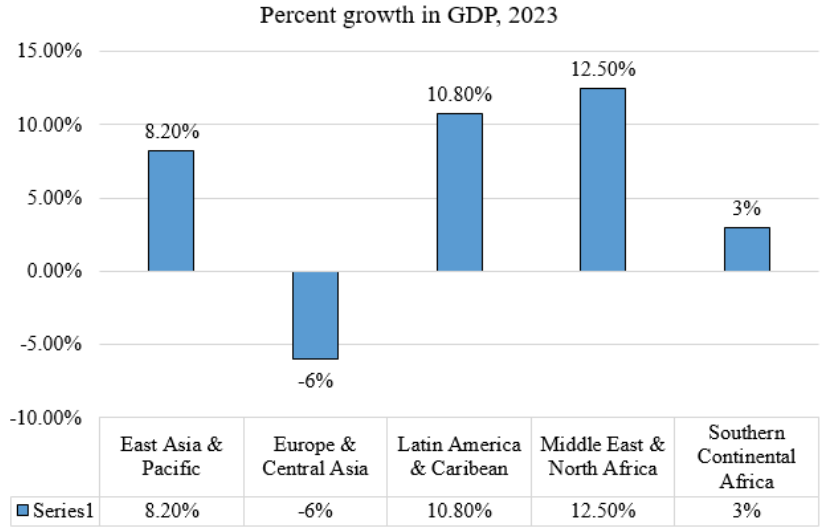
A ₹ 6,000

B ₹ 5,500

C ₹ 4,500

D ₹ 10,500

58 The following graph shows economic data for the financial year 2023:



In 2023, the Middle East and North Africa's percent growth in GDP was approximately what percent greater than Southern Continental Africa's percent growth in GDP?

A 225%

B 317%

C 367%

D 417%

59 How many such pairs of letters are there in the word INSTRUCTION which have as many letters between them in the word as in the English alphabet?

A One

B Two

C Three

D Four

60 Which of the following words CANNOT be formed from the letters of the word 'INFRASTRUCTURE' ?

A Nature

B Charter

C Fracture

D Restrain

61 Prakash remembers that his wife Roshni's birthday falls after
20th
May but before
28th
May, while Jyoti remembers that her mother Roshni's birthday falls after
26th
May but before
30th
May. On what date does Roshni's birthday fall ?

A
26th
May

B
27th
May

C
28th
May

D
29th
May

62 Pick the most appropriate punctuation mark for the following sentence :
"There goes the bell ___"

A (.) full stop

B (?) question mark

C (!) exclamation mark

D (:) colon

63 Choose the option which best replaces the underlined phrase in the following sentence.
"In a few minutes' time, when the clock strikes six I would be waiting here for an hour".

A Shall be waiting on

B Shall have been waiting

C Shall wait

D No improvement

64 Which of the following is the synonym of the term "HACKNEYED"?

A Important

B Horrible

C Clichéd

D Heightened

65 Out of the given options, pick the one which best expresses the following sentence in indirect speech. The coach said, "Well done ! You have made me proud."

A The coach applauded and said that he has made him proud.

B The coach applauds and says well done that he had made him proud.

C The coach applauded and says well done and that he has made him proud.

D The coach applauded and said that he had made him proud.

66 Pick the active voice of the following sentence :
"The national anthem is being sung by the players".

A The players were singing the national anthem.

B The players are singing the national anthem.

C The players sing the national anthem.

D The players have sung the national anthem.

67 The idiom "a gentleman at large" means :

A a man in the crowd
B a man without a job
C a man who runs around
D a man who is generous

68 Pick the correct option to complete the following sentence :
"All the students and teachers _____ this book."

A likes
B like
C liking
D are like

69 Which of the following options is the correct meaning of the underlined phrase in the following sentence? "Should spending on the arts be met out of the public purse?"

A From the sum collected from public donation.
B From the purse of the art enthusiasts.
C From the money meant to be distributed to the poor and needy.
D From the government money.

70 Pick the odd one out from the following options.

A Plan for
B Plan on
C Plan out
D Plan in

71 Pick the best substitute for the following expression:
"One who does not care for literature or art".

A Dictator
B Hypocrite
C Philistine
D Primitive

72 Pick the passive equivalent of the following sentence :
"The taxi will drop you at the airport."

A The taxi at the airport will be dropping you.
B Dropping you at the airport will be done by the taxi.
C The taxi is dropping you at the airport.
D You will be dropped at the airport by the taxi.

73 Pick the correct meaning of the phrase "ULTRA VIRES".

A Internet virus
B Contagious disease
C Within authority
D Beyond jurisdiction

74 Pick the word with the correct spelling.

A Dicease
B Desease
C Discease
D Disease

75 Pick the correct antonym of the term "DILATE".

A Dilute
B Differentiate
C Contract
D Expand

76 Choose the option which best replaces the underlined phrase.
When Dr. Sapra came to the school in 1995, Dr. Anand had already been teaching there since five years.

A have already been teaching there for five years
B had already been teaching there for five years
C has already been teaching there since five years
D No improvement

77 Identify the error in the sentence given below having three components marked as (i), (ii), and (iii) :
(i) I was disappointed (ii) when I came for seeing you last evening (iii) but could not find you at home.

A (i)
B (ii)
C (iii)
D (ii) and (iii)

78 Match List I with II

List I (Underlined word)	List II (Meaning)
(A) **All** men are mortal.	(I) Noun
(B) He was **all** alon when I saw him.	(II) Pronoun
(C) **all** spoke in his favour	(III) Adverb
(D) He lost his **all** in speculation.	(IV) Adjective

Choose the correct answer from the options given below :

A (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
B (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
C (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
D (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

79 Out of the options given below, select the most logical order of the sentences to form a coherent paragraph. (A) For that we need people who possess not only high skills but high values as well. (B) So the need of the hour is not only skill-based education but also value-inspired and value-based education. (C) When we talk of investing in education, a question arises as to what kind of education needs to be given to the youngsters.
(D) Our aim is to evolve not only an affluent society, but an egalitarian, just, humane and compassionate society. Choose the correct answer from the options given below :

A (D), (A), (C), (B)
B (A), (C), (B), (D)
C (C), (B), (D), (A)
D (C), (D), (A), (B)

80 Match List I with II

List I	List II
(A) I shall speak	(I) Future Perfect Continuous Tense
(B) I shall have spoken	(II) Simple Future Tense
(C) I shall have been speaking	(III) Future Continuous Tense
(D) I shall be speaking	(IV) Future Perfect Tense

Choose the correct answer from the options given below :

A (A) - (I), (B) - (II), (C) - (III), (D) - (IV)

B (A) - (II), (B) - (III), (C) - (IV), (D) - (I)

C (A) - (II), (B) - (IV), (C) - (I), (D) - (III)

D (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

81 In the following question, a sentence is divided into four parts (A,B,C and D). Rearrange it in the proper sequence in order to make a meaningful sentence.
(A) that is closely related to the peach tree (B) almonds are commonly called nuts (C) but they are actually seeds (D) and they come from a tree
Choose the correct answer from the options given below :

A (A), (B), (C), (D)

B (B), (C), (D), (A)

C (C), (D), (A), (B)

D (D), (A), (B), (C)

82 Match List I with II

List I (Phrase)	List II (Meaning)
(A) Up for grabs	(I) To be punished less severely than expected
(B) Make hay while the sun shines	(II) Become out of control
(C) Go haywire	(III) To use opportunities while they last
(D) Get off lightly	(IV) Available for anyone interested

Choose the correct answer from the options given below :

A (A) - (I), (B) - (II), (C) - (III), (D) - (IV)

B (A) - (II), (B) - (III), (C) - (IV), (D) - (I)

C (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

D (A) - (IV), (B) - (III), (C) - (II), (D) - (I)

83 Pick the part of the sentence with grammatical mistakes/errors.
(A) The economist were of the opinion (B) that the government should give longer times to farmers (C) to pay the loan instead of waiving the entire farm loan (D) as doing so is not good for credit culture

A (A) and (B) only

B (A) and (C) only

C (B) and (C) only

D (C) and (D) only

Directions

Ram and Shyam run a race between points A and B, 5 km apart. Ram starts at 9 AM from A at a speed of 5km/hr reaches B and comes back to A at the same speed. Shyam starts at 9:45AM from A at a speed of10km/hr, reaches B and comes back to A at the same speed.

84 At what time do Ram and Shyam meet each other ?

A 10 : 00 AM
B 10 : 10 AM
C 10 : 20 AM
D 10 : 30 AM

85 At what time does Shyam overtake Ram ?

A 10 : 20AM
B 10 : 30AM
C 10 : 40AM
D 10 : 50AM

Directions

The following table gives the expenditure details of a family during the years 2011 to 2015.

Item of Expenditure	Expenditure(in ₹ Thousands)					
	2011	2012	2013	2014	2015	Total
Food	800	900	1050	1200	1400	5350
House Rent	150	150	210	240	300	1050
Clothing	75	100	130	170	250	725
Fuel and Electricity	30	40	50	60	70	250
Education	150	170	200	260	300	1080
Medical Expenses	75	90	100	110	150	525
Miscellaneous	220	250	260	360	430	1520
Total	1500	1700	2000	2400	2900	10500

86 What is the percentage increase in expenditure on education during 2011 to 2015 ?

A 50%
B 75%
C 100%
D 150%

87 In the light of the total expenditure for 2011, 2012, 2013, 2014 and 2015, what will be the likely expenditure in 2016 ?

A ₹ 30,00,000
B ₹ 32,00,000
C ₹ 35,00,000
D ₹ 37,00,000

88 Considering the total expenditure for all the five years together, what is the percentage expenditure on house rent ?

A 15%
B 10%
C 12%
D 8%

Directions

Read the paragraph and answer the questions that follow.

Are people ___ (i) ___ or even typically, guided by reason, rather than, say, by passion or impulse ? If the norms of rational behaviour are not followed by people in their actual behaviour, how can we seek the same answer to two rather different questions : what would be rational for a person to do ? And what would the person actually do ? Shouldn't the economists who make such double use of maximisation - whether through explicit reasoning ___ (ii) ___ by implicit presumption - be invited to apply their minds to this ?

A number of economists have indeed paid attention to systematic departures from rationality in actual choices made by people. One argument that has been invoked, in a line of reasoning proposed by Herbert Simon, goes by the name of bounded rationality. It concerns the possibility that people may not, in all cases, look for fully ___ (iii) ___ choices because of their inability to be sufficiently focussed. There is considerable evidence, powerfully presented, for example, ___ (iv) ___ Kahneman, Slovic and Tversky, that people may fail to understand adequately the nature of the uncertainty.

89 Pick the most appropriate word to fill (iii) in the given passage :

A rational
B rationale
C rationally
D rationality

90 Pick the most appropriate word to fill (ii) in the given passage :

A and
B or
C along
D instead

91 Pick the most appropriate word to fill (i) in the given passage

A invariable
B invariably
C invariabily
D invariability

92 Pick the most appropriate word to fill (iv) in the given passage :

A with
B by
C at
D up

Directions

Read the paragraph and answer the questions that follow.

Literary criticism does not necessarily have to choose between textual or verbal and contextual study. The distinction between the two types of linguistic meaning is seen at two levels, formal and textual. Formal meaning in poetry is the level at which stylistic patterns occur but these are not restricted to mere form. Panini discusses, in a few sutras scattered over his works, the influence of the concept of language in various spheres of suffixes, primary and secondary derivatives and compounds. Poetics is also indebted to grammar for the terms 'Jati' (genus), 'Kriya' (action), 'Guna' (quality) and 'Dravya' (individual/substance) which it uses in connection with certain poetic figures or while dealing with the expressive function of words.

Literary criticism, in the Sanskrit tradition, has been understood to be a sastra by which is meant any systematic, well-formulated body of knowledge. A 'sastraic' exposition is supposed to involve inquiry into the nature of substance, nature of language and the validity of critical statements. Thus, a basic understanding of the grammatical and philosophical issues is a prerequisite for the understanding of critical questions.

93 Which inquiries are undertaken in 'Sastraic' expositions?
(A) Mainly primary and secondary derivatives of compounds (B) Nature of substance.
(C) Stylistic patterns (D) Nature of language (E) Validity of critical statements
Choose the most appropriate answer from the options given below :

A (D) and (E) only
B (B), (A), (C) and (D) only
C (B), (D) and (E) only
D (B) and (C) only

94 As per the passage, which of the following was primarily discussed by Panini ?

A Terms like 'jati', 'kriya', 'guna' and 'dravya'
B Impact of language on derivative words
C Philosophical issues
D Critical questions

95 Which of the following statements are true about the given passage ?
(A) Literary criticism must use either textual or contextual study.
(B) Formal and textual are two levels and help in ascertaining linguistic meaning.
(C) Critical questions cannot be understood without a philosophical and grammatical understanding. (D) Panini has written in a compact format of Sutras.
(E) Sanskrit has a tradition of literary criticism for a long time.
Choose the most appropriate answer from the options given below :

A (A) and (E) only
B (C), (D) and (B) only
C (C) and (B) only
D (B), (C), and (E) only

96 Which word in the passage is close in meaning to 'being logical and true' ?

A Inquiry
B Formulated
C Compound
D Validity

Directions

All great thinkers live and move on a high plane of thought. It is only there they can breathe freely. It is only in contact with spirits like themselves they can live harmoniously and attain that serenity which comes from ideal companionship. I have always thought that the strongest argument in favour of the Baconian theory was, that no man, however indubitable his genius, could have written the plays and sonnets that have come down to us under Shakespeare's name who had not the liberal education of Bacon. How this habit of intercourse with the gods makes one impatient of mere men. The magnificent ideals that have ever haunted the human mind, and given us our highest proofs of a future immortality by reason of the impossibility of their fulfillment here, are splintered into atoms by contact with life's realities. Hence comes our sublime discontent. It may be spiritual or intellectual pride that is engendered on the high plane of intellectual life. But whatever it is, it becomes inevitable. A habitual meditation on the vast problems that underline human life, and are knit into human destinies. It is easy to understand, therefore, why such thinkers fly to the solitude of their own thoughts, or the silent companionship of the immortals; and if they care to present their views in prose or verse to the world, that these views take a sombre and melancholy setting from "the pale cast of thought"in which they were engendered.

97 According to the author, why do the great thinkers need to attain and remain at high plane of thought? (A) Because they want to enjoy harmony and serenity from ideal companionship.
(B) Because the experience of greatness makes them impatient of being ordinary men.
(C) Because the high plane of intellectual life instills a spiritual and intellectual pride in them.
(D) Because they are apathetic to commoners and solely eager to attain lofty ideals.
Choose most appropriate answer from the options given below :

A (A), (B) and (C) only
B (B), (C) and (D) only
C (A), (C) and (D) only
D (A), (B), (C) and (D)

98 What does the phrase "THE PALE CAST OF THOUGHT"mean?

A State of mind during sickness
B Sudden and quick flash of thoughts
C Unhappy and disillusioned state of mind
D Serious and prolonged thinking

99 Given below are two statements : One is labelled as Assertion (A) and the other is labelled as Reason (R). Assertion (A) : The passage presents a rationale behind the great writers' flight to the solitude of their thoughts and silent companionship of immortals.
Reason (R) : They do so because they are melancholic and naturally averse to ordinary humanity and disgust of unregenerated masses.

A Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A)
B Both Assertion (A) and Reason (R) are correct but Reason (R) is NOT the correct explanation of Assertion (A)
C (A) is correct but (R) is not correct
D (A) is not correct but (R) is correct

100 Given below are two statements :
Statement I: The author upholds the Baconian theory because, according to him, despite being a genius, Shakespeare could not write the plays and sonnets that have come down to us under his name.
Statement II : He holds that Bacon was more resourceful than Shakespeare because he had the liberal education.

A Both Statement I and Statement II are correct

B Both Statement I and Statement II are incorrect

C Statement I is correct but Statement II is incorrect

D Statement I is incorrect but Statement II is correct

Thinkoraa
Think big, Achieve bigger

Answer Key

Questions

1 **C**	2 **A**	3 **C**	4 **C**	5 **D**	6 **B**	7 **C**	8 **B**	9 **D**	10 **A**
11 **C**	12 **B**	13 **D**	14 **D**	15 **D**	16 **C**	17 **D**	18 **B**	19 **A**	20 **D**
21 **C**	22 **C**	23 **D**	24 **D**	25 **B**	26 **D**	27 **C**	28 **C**	29 **C**	30 **B**
31 **A**	32 **A**	33 **D**	34 **D**	35 **D**	36 **A**	37 **B**	38 **D**	39 **A**	40 **A**
41 **D**	42 **D**	43 **C**	44 **A**	45 **B**	46 **D**	47 **C**	48 **D**	49 **A**	50 **D**
51 **D**	52 **C**	53 **C**	54 **C**	55 **A**	56 **B**	57 **C**	58 **B**	59 **D**	60 **B**
61 **B**	62 **C**	63 **B**	64 **C**	65 **D**	66 **B**	67 **B**	68 **B**	69 **D**	70 **D**
71 **C**	72 **D**	73 **D**	74 **D**	75 **C**	76 **B**	77 **B**	78 **D**	79 **D**	80 **C**
81 **B**	82 **D**	83 **A**	84 **B**	85 **B**	86 **C**	87 **C**	88 **B**	89 **A**	90 **B**
91 **B**	92 **B**	93 **C**	94 **B**	95 **D**	96 **D**	97 **A**	98 **D**	99 **C**	100 **A**

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Think big, Achieve bigger

Solutions

Questions

1 **Answer: C**

Correct answer: **C — Right-angled triangle**.

2 **Answer: A**

Correct answer: **A — 426**.

3 **Answer: C**

Correct answer: **C —** $\frac{100(a+b)}{y-x}$.

4 **Answer: C**

Correct answer: **C —** $20\sqrt{3}$ **cm**.

5 **Answer: D**

Correct answer: **D — 20**.

6 **Answer: B**

Correct answer: **B — (C), (B), (A), (D)**.

7 **Answer: C**

Correct answer: **C — 12%**.

8 **Answer: B**

Correct answer: **B — Both Statement I and Statement II are false**.

9 **Answer: D**

Correct answer: **D —** $\frac{2}{35}$.

10 **Answer: A**

Correct answer: **A — It shall increase by 1**.

11 **Answer: C**

Correct answer: **C — (A) - (II), (B) - (IV), (C) - (I), (D) - (III)**.

12 **Answer: B**

Correct answer: **B — 37**.

13 **Answer: D**

Correct answer: **D — 60 cm**.

14 **Answer: D**

Correct answer: **D — Statement I is false but Statement II is true**.

15 **Answer: D**

Correct answer: **D — (D), (B), (A), (C)**.

16 **Answer: C**

Correct answer: **C — 0**.

17 **Answer: D**

Correct answer: **D — 15**.

18 **Answer: B**

Correct answer: **B — 34.39%**.

19 **Answer: A**

Correct answer: **A — Both Statement I and Statement II are true**.

20 **Answer: D**

Correct answer: **D — (A) is false but (R) is true.**.

21 **Answer: C**

Correct answer: **C — 8 days**.

22 **Answer: C**

Correct answer: **C — 35%**.

23 **Answer: D**

Correct answer: **D — 150%**.

24 **Answer: D**

Correct answer: **D** — $\frac{3abc}{ab+bc+ac}$.

25 **Answer: B**

Correct answer: **B** — $\frac{b}{ac}$.

26 **Answer: D**

Correct answer: **D — (C) and (D) only**.

27 **Answer: C**

Correct answer: **C — (x - 1)(x - 2)(x - 3)**.

28 **Answer: C**

Correct answer: **C — (A), (D), (B), (C)**.

29 **Answer: C**

Correct answer: **C —** $\left(\frac{5}{2}, \frac{3}{2}\right)$.

30 **Answer: B**

Correct answer: **B —** $\frac{1}{2}$.

31 **Answer: A**

Correct answer: **A — 315**.

32 **Answer: A**

Correct answer: **A — Only argument I is strong.**.

33 **Answer: D**

Correct answer: **D — (B) and (C) only**.

34 **Answer: D**

Correct answer: **D — 30**.

35 **Answer: D**

Correct answer: **D — E - Car**.

36 **Answer: A**

Correct answer: **A — 723144**.

37 **Answer: B**

Correct answer: **B — (A) - (III), (B) - (I), (C) - (IV), (D) - (II)**.

38 **Answer: D**

Correct answer: **D — Both conclusions I and II follow**.

39 **Answer: A**

Correct answer: **A — Sonia**.

40 **Answer: A**

Correct answer: **A — Both Assertion (A) are true Reason (R) is the correct explanation of (A)**.

41 **Answer: D**

Correct answer: **D — 10:00 PM, Wednesday**.

42 **Answer: D**

Correct answer: **D — IDBH**.

43 **Answer: C**

Correct answer: **C — Measles**.

44 **Answer: A**

Correct answer: **A — (A) - (IV), (B) - (III), (C) - (I), (D) - (II)**.

45 **Answer: B**

Correct answer: **B — 200,150**.

46 **Answer: D**

Correct answer: **D — Crime**.

47 **Answer: C**

Correct answer: **C — (B) and (C) only**.

48 **Answer: D**

Correct answer: **D — G148M**.

49 **Answer: A**

Correct answer: **A — Grandson**.

50 **Answer: D**

Correct answer: **D — On QR at a distance of 10 m from R**.

51 **Answer: D**

Correct answer: **D — 5**.

52 **Answer: C**

Correct answer: **C — 21**.

53 **Answer: C**

Correct answer: **C — BMO**.

54 **Answer: C**

Correct answer: **C — 6444**.

55 **Answer: A**

Correct answer: **A — 9**.

56 **Answer: B**

Correct answer: **B — 61.2o**.

57 **Answer: C**

Correct answer: **C — ₹ 4,500**.

58 **Answer: B**

Correct answer: **B — 317%**.

59 **Answer: D**

Correct answer: **D — Four**.

60 **Answer: B**

Correct answer: **B — Charter**.

61 **Answer: B**

Correct answer: **B — 27th May**.

62 **Answer: C**

Correct answer: **C — (!) exclamation mark**.

63 **Answer: B**

Correct answer: **B — Shall have been waiting**.

64 **Answer: C**

Correct answer: **C — Clichéd**.

65 **Answer: D**

Correct answer: **D — The coach applauded and said that he had made him proud.**.

66 **Answer: B**

Correct answer: **B — The players are singing the national anthem.**.

67 **Answer: B**

Correct answer: **B — a man without a job**.

68 **Answer: B**

Correct answer: **B — like**.

69 **Answer: D**

Correct answer: **D — From the government money.**.

70 **Answer: D**

Correct answer: **D — Plan in**.

71 **Answer: C**

Correct answer: **C — Philistine**.

72 **Answer: D**

Correct answer: **D — You will be dropped at the airport by the taxi.**.

73 **Answer: D**

Correct answer: **D — Beyond jurisdiction**.

74 **Answer: D**

Correct answer: **D — Disease**.

75 **Answer: C**

Correct answer: **C — Contract**.

76 **Answer: B**

Correct answer: **B — had already been teaching there for five years**.

77 **Answer: B**

Correct answer: **B — (ii)**.

78 **Answer: D**

Correct answer: **D — (A) - (IV), (B) - (III), (C) - (II), (D) - (I)**.

79 **Answer: D**

Correct answer: **D — (C), (D), (A), (B)**.

80 **Answer: C**

Correct answer: **C — (A) - (II), (B) - (IV), (C) - (I), (D) - (III)**.

81 **Answer: B**

Correct answer: **B — (B), (C), (D), (A)**.

82 **Answer: D**

Correct answer: **D — (A) - (IV), (B) - (III), (C) - (II), (D) - (I)**.

83 **Answer: A**

Correct answer: **A — (A) and (B) only**.

84 **Answer: B**

Correct answer: **B — 10 : 10 AM**.

85 **Answer: B**

Correct answer: **B — 10 : 30AM**.

86 **Answer: C**

Correct answer: **C — 100%**.

87 **Answer: C**

Correct answer: **C — ₹ 35,00,000**.

88 **Answer: B**

Correct answer: **B — 10%**.

89 **Answer: A**

Correct answer: **A — rational**.

90 **Answer: B**

Correct answer: **B — or**.

91 **Answer: B**

Correct answer: **B — invariably**.

92 **Answer: B**

Correct answer: **B — by**.

93 **Answer: C**

Correct answer: **C — (B), (D) and (E) only**.

94 **Answer: B**

Correct answer: **B — Impact of language on derivative words**.

95 **Answer: D**

Correct answer: **D — (B), (C), and (E) only**.

96 **Answer: D**

Correct answer: **D — Validity**.

97 **Answer: A**

Correct answer: **A — (A), (B) and (C) only**.

98 **Answer: D**

Correct answer: **D — Serious and prolonged thinking**.

99 **Answer: C**

Correct answer: **C — (A) is correct but (R) is not correct**.

100 **Answer: A**

Correct answer: **A — Both Statement I and Statement II are correct**.