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JIPMAT 2022 OFFICIAL PAPER

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QUANTITATIVE ABILITY

Questions: 33 (+4/-1)

Total Test time: 2.5 Hrs

- A sum becomes double in 10 years, then annual rate of simple interest is
(a) 8% (b) 5%
(c) 10% (d) 20%
- P, Q and R invested Rs. 25,000, Rs. 50,000 and Rs. 25,000 respectively to start a business. At the end of two years, they earned a profit of Rs. 48,000. What will be Q's share?
(a) 24,000 (b) 36,000
(c) 12,000 (d) 20,000

3. Match List I with List II

List I (Quadratic Equation)	List II (Roots)
A. $6x^2 \div 12 = 0$	I. (-6, 4)
B. $8x^2 + 16x - 10 - 202$	II. (9, 36)
C. $x^2 - 15x + 324 - 0$	III. $(3, -\frac{1}{2})$
D. $2x^2 - 5x - 3 - 0$	IV. $(-\frac{3}{2}, \frac{4}{3})$

Choose the answer from the given below:

- (a) A-I, B-III, C-IV, D-II (b) A-IV, B-I, C-II, D-III
(c) A-II, B-IV, C-III, D-I (d) A-III, B-II, C-I, D-IV
- The population of a village is 5000. In a year, the number of males were to increase by 5% and that of females by 3% annually, the population would grow to 5202 at the end of the year. If M is the number of males and F is the number of females in the village, then (M,F) =
(a) (3000, 2000) (b) (2800, 2200)
(c) (2600, 2200) (d) (2700, 2300)
 - If A earns $33\frac{1}{3}\%$ more than B, then percentage B earns less than A will be
(a) $66\frac{2}{3}\%$ (b) 25%
(c) 65% (d) $33\frac{1}{3}\%$

- Which of the following trigonometric identities are true?
A. $\sin^2(41^\circ) + \sin^2(49^\circ) = 1$
B. $\sin^2(60^\circ) - 2 \tan(45^\circ) - \cos^2(30^\circ) = -1$
C. $\sin^2(\theta) + \frac{1}{1+\tan^2(\theta)} = 1$

Choose the correct answer from the options given below:

- (a) A and B only (b) A and C only

- (c) B and C only (d) A, B and C

- Which of the following is the value of m for which the polynomial $x^4 + 10x^3 + 25x^2 + 15x + m$ is exactly divisible by $x + 7$?
(a) -91 (b) -101
(c) 15 (d) 115

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- The area of a circular play ground is 22176 cm². What is the cost of fencing this ground at the rate of ₹50 per metre?
(a) ₹ 264 (b) ₹ 400
(c) ₹ 312 (d) ₹ 244
- The sum of n-terms of sequence $\frac{1}{1 \times 2} \times \frac{1}{2 \times 3} \times \frac{1}{3 \times 4} \times \dots$ is
(a) $\frac{1}{n+1}$ (b) $\frac{1}{n}$
(c) $\frac{n+1}{n}$ (d) $\frac{n}{n+1}$
- If I can do $\frac{1}{4}$ of a work in 3 days and 'B' can do $\frac{1}{6}$ of same work in 4 days, how much will, 'A' get if both work together and are paid ₹ 180 in all
(a) ₹ 36 (b) ₹ 60
(c) ₹ 108 (d) ₹ 120
- Two poles of height 6 m and 11 m stand vertically upright on a plane ground. If the distance

between their foot is 12 m, then distance between their tops is

- (a) 12 m (b) 14 m
(c) 13 m (d) 11 m

12. The value of a flat worth ₹ 5,00,000 is depreciating at the rate of 10% p.a. In how many years, will the value be reduced to ₹ 364500.
(a) 2 years (b) 3 years
(c) 3 years six month (d) 4 year

13. How many litres of water should be added to a 30 litres mixture of milk and water containing milk and water in the ratio 7:3 such that the resultant mixture has 40% water in it
(a) 5 (b) 2
(c) 3 (d) 8

14. Given below are two statements:
Statement I : The sum of exponents of prime factors in the prime factorization of 392 is 5.

Statement II : The decimal representation $\frac{13}{2^3 \times 5}$ will terminate after 2 decimal places.

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

15. Given below are two statement based on the following
If A and B are independent events such that $P(A) = p$, $P(B) = 2p$ and $P(\text{exactly one of } A, B) = \frac{5}{9}$

Statement I: $p = \frac{1}{3}$
Statement II: $p = \frac{5}{12}$

In the light of the above statements, choose the correct answer form the question 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

16. Given below are two statements based on the following:
A motor boat can travel 30 km upstream and 28 km downstream in 7 hours. It can travel 21 km upstream and return in 5 hours.
Statement I : Speed of the boat in still water is 12 km per hour.
Statement II : Speed of the stream is 4 km per hour.

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

17. Floor of a room is 15 m 17 cm long and 9 m 2 cm broad. What is the least number of square tiles required to pave the floor?
(a) 768 (b) 906
(c) 814 (d) 652

18. Two persons A and B starts from same point to travel from Chandigarh to Ambala. Distance between Chandigarh and Ambala is 60 km. Speed of A is 4 km/hr. slower than B. B when reaches Ambala, starts back via same route without taking any rest and meets A who was still 12 km away from Ambala. Find speed of A.

- (a) 4 km/hr (b) 8 km/hr
(c) 12 km/hr (d) 14 km/hr

19. If LCM of two numbers is 12 times HCF and the sum of LCM and HCF is 403, if one number is 93, find the other number

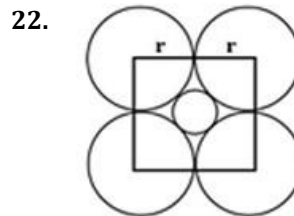
- (a) 124 (b) 114
(c) 128 (d) 96

20. The father's age is six times his son's age. Four years hence, the age of the father will be four times his son's age. The present age (in years) of the son and the father are, respectively

- (a) 6 and 36 (b) 4 and 24
(c) 5 and 30 (d) 7 and 42

21. Three years ago, ratio of ages of Amisha and Namisha was 8:9. 3 years from now the ratio will become 11:12 . What is the present age of Amisha?

- (a) 2 years (b) 16 years
(c) 19 years (d) 21 years



If radius of each of four outer circles is r, then radius of innermost circle is

- (a) $\frac{\sqrt{2}}{\sqrt{2}+1}r$ (b) $\frac{1}{\sqrt{2}}r$
(c) $(\sqrt{2} - 1)r$ (d) $\sqrt{2}r$

23. If $\sin(\alpha)$ and $\cos(\alpha)$ are the roots of the equation $ax^2 + bx + c = 0$, then b^2 is
 (a) $c^2 + 2ac$ (b) $a^2 + ac$
 (c) $a^2 + 2ac$ (d) $c^2 + ac$
24. If the mean of a, b and c is M ; $ab + bc + ca = 0$; and the mean of a^2, b^2 and c^2 is KM^2 , then K is equal to
 (a) 2 (b) 9
 (c) 6 (d) 4

25. Match List I with List II

List I	List II
A. Mean of first five prime numbers is	I. 12
B. Mean of all factors of 24 is	II. 7.5
C. Mean of first six multiples of 4 is	III. 5.6
D. If the mean of $x-5y, x-3y, x-y, x+y, x+3y$ and $x+5y$ is 12, then x is	IV. 14

Choose the correct answer from the options given below:

- (a) A-II, B-I, C-III, D-IV (b) A-III, B-II, C-IV, D-I
 (c) A-I, B-IV, C-II, D-III (d) A-IV, B-III, C-I, D-II
26. $\frac{\sqrt{5+\sqrt{3}}}{\sqrt{8-2\sqrt{15}}} + \frac{\sqrt{11+2\sqrt{30}}}{\sqrt{6-\sqrt{5}}} =$
 (a) $25 + \sqrt{10} + 2\sqrt{30}$ (b) $40 + \sqrt{10} + 2\sqrt{30}$
 (c) $30 + \sqrt{20} + 2\sqrt{30}$ (d) $15 + \sqrt{15} + 2\sqrt{30}$
27. If $a + b = 2a - 3b + ab$, then $3 \times 5 + 5 \times 3$ is equal to
 (a) 26 (b) 24
 (c) 22 (d) 20
28. The value of $\frac{325 \times 325 \times 325 + 175 \times 175 \times 175}{325 \times 325 - 325 \times 175 + 175 \times 175}$ is
 (a) 143755 (b) 1125
 (c) 9575 (d) 500
29. Given below are two statements:
 Statement I: In ΔABC , $AB = 6\sqrt{3}$ cm, $AC = 12$ cm and $BC = 6$ cm, then angle $B = 90^\circ$
 Statement II: In ΔABC , is an isosceles with $AC=BC$. If $AB^2 = 2AC^2$, Then angle $C = 90^\circ$

In the light of the above statement, choose the correct answer form the question 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

30. Given below are two statement:

Statement I: If $\sin(\theta) = \frac{5}{13}$, then the value of $\tan(\theta) = \frac{5}{12}$

Statement II: if $\cot(\theta) = \frac{12}{5}$, then the value of $\sin(\theta) = \frac{5}{12}$

In the light of the above statements, choose the correct answer form the question 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
31. A two digit number is 7 times the sum of its two digits. The number that is formed by reversing its digits is 18 less than original number. What is the number?
 (a) 24 (b) 42
 (c) 36 (d) 63
32. If $\frac{a}{b+c} = \frac{b}{c+a} = \frac{c}{a+b} = k$ then value of k is
 (a) $\pm \frac{1}{2}$ (b) $\frac{1}{2}$ or -1
 (c) -1 (d) $\frac{1}{2}$
33. The equation of the circle which passes through the point $(4, 5)$ and its centre at $(2, 2)$ is
 (a) $(x - 2) + (y - 2) = 13$
 (b) $(x - 2)^2 + (y - 2)^2 = 13$
 (c) $x^2 + y^2 = 13$
 (d) $(x - 4)^2 + (y - 5)^2 = 13$

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DATA INTERPRETATION AND LOGICAL REASONING

Questions: 33 (+4/-1)

Direction (Q.34-Q.36): Following expenditure was incurred by a company under different heads:

Year	Item of Expenditure				
	Salary	Cost of components	Power	Interest	Taxes
2000	288	296	26.4	12.2	32.0
2001	299	332	28.4	14.2	34.6
2002	298	382	26.2	14.8	38.8
2003	305	410	28.6	15.2	42.4
2004	316	428	32.0	14.3	42.6

- 34. What is the approximate ratio between total tax paid and cost of components over all these years?
 (a) 11 : 117 (b) 3 : 70
 (c) 14 : 138 (d) 12 : 141
- 35. Total expenditure in 2000 was what percentage of total expenditure in 2003?
 (a) 60.03% (b) 81.70%
 (c) 76.56% (d) 122.39%
- 36. Which year saw the maximum increase in salary over the previous year?
 (a) 2001 (b) 2002
 (c) 2003 (d) 2004

Direction (Q.37-Q.40): A Teacher has partial data of the students result:

Sex	Grade			Total
	A	B	C	
Girl				40
Boys	5			
Total		30		

- The other information available is –
1. Half the students have grade A and B
 2. 50% of the students are girls
 3. $\frac{1}{4}$ of boys have grade C
- 37. The numbers of girls who have grade B and number of girls who have grade C are –
 (a) 5, 30 (b) 30, 5
 (c) 10, 30 (d) 30, 10

- 38. The number of girls, boys and total number of students is –
 (a) Girls - 40, Boys - 45, Total - 85
 (b) Girls - 40, Boys - 40, Total - 80
 (c) Girls - 40, Boys - 50, Total - 90
 (d) Girls - 40, Boys - 35, Total - 75
- 39. Half the students have grade A or B. The number of girls of Grade A and total (girls and boys) having grade A are-
 (a) 5, 10 (b) 5, 5
 (c) 10, 5 (d) 10, 10
- 40. Number of boys who have grade B and number of boys who have grade C are-
 (a) 25, 10 (b) 10, 25
 (c) 10, 30 (d) 30, 10
- 41. There is certain relationship between two given terms on one side of (: :) and one term is given on the other side of (: :). While another term is to be found from given alternates having the same relation with this term as the terms of given pairs LCQJ : METN :: ABDF : ?
 (a) BCEG (b) CEFI
 (c) DEGI (d) BDGJ

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- 42. Sheela is wife of Arun. Deepak is brother of Sheela. Geeta and Mita are children of Sunita, who is wife of Deepak. How is Arun related to Mita ?

- (a) Grandfather (b) Mother
- (c) Uncle (d) Father in law

43. Three statements are given. Based on the three statements, four conclusions are given. Consider the three statements as True and decide which of the conclusions logically follow from the statements:

Statements:

- All Sparrows are birds
- All birds are mountains.
- All mountains are skies.

Conclusions:

- I) All Sparrows are skies.
- II) All Skies are birds.
- III) All mountains are sparrows
- IV) All birds are skies
- (a) Only I and III follow (b) Only II and III follow
- (c) Only I and IV follow (d) Only II and IV follow

44. Various terms of an alphabet series are given with one or more terms missing as shown by (?) choose the missing term out of the given

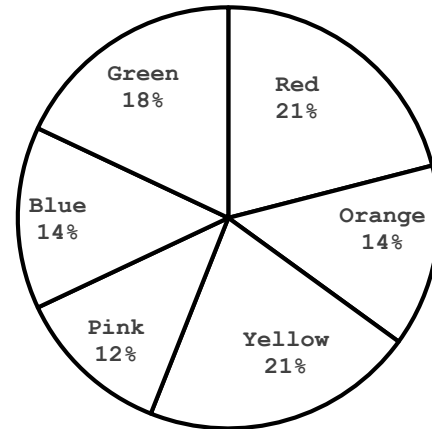
- AGDLX, GDLXA, DLXAG, ?, XAGDL, AGDLX
- (a) LXAGD (b) XAGLD
 - (c) DXAGL (d) GLXAD

45. Read the following information:

- A and C are good in History and Biology
- A is also good in Math.
- B and D are good in Physics
- A is also good in Chemistry
- C and D are good in Chemistry
- Who is /are good in four of these five subjects?
- (a) A and C (b) C
- (c) A (d) D

Direction (Q.46-Q.50): In a box, there are several balls. The pie -chart shows the percentage -wise distribution of 5 different colours of balls; and total number of balls = 1000. Also, the ratio of the light and dark shades of the six colors of balls is given:

Color	Light: Dark
Red	3:4
Blue	5:3
Green	1:3
Pink	1:7
Yellow	9:5
Orange	7:9



Based on the above data.

46. How many dark red balls are there in the box?
 (a) 110 (b) 120
 (c) 130 (d) 140
47. What is the total number of green balls?
 (a) 170 (b) 180
 (c) 185 (d) 190
48. What is the total percentage of orange, yellow and pink balls in the box?
 (a) 46 (b) 47
 (c) 48 (d) 49
49. What is the difference between number of light red balls and number of dark yellow balls?
 (a) 15 (b) 12
 (c) 17 (d) 14
50. What is the ratio of dark pink balls to the dark green balls?
 (a) 6 : 9 , (b) 7 : 8
 (c) 7 : 9 (d) 6 : 8
51. Four friends Jaspreet, Rohit, Rihanna and Blessy like different sports. All of them are the active members of their clubs. One person can become a member of one club only. There are three clubs- Dance, Theatre and Eco club in the school.
 Jaspreet who likes swimming is not a member of dance club. Rihanna is a member of dance club but does not like tennis. Rohit likes badminton but is not a member of theatre or dance club.
 Blessy is a member of Eco club and does not like swimming and badminton.
 Who likes badminton and is a member if Eco club?
 (a) Jaspreet (b) Rohit
 (c) Rihanna (d) Blessy

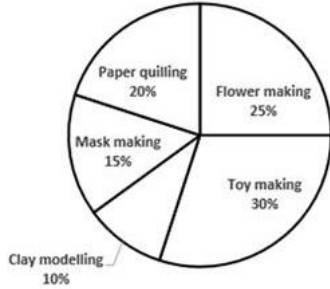
52. Complete the series:

CEFH, IKLN, _____, UWXZ

- (a) OPQR (b) PRSU
(c) PQST (d) OQRT

Direction (Q.53-Q.55): Study the following pie-chart and answer the following questions:

Percentage-wise participation of students in various activities Total number of students = 40



53. How many students participated in mask-making and paper-quilling activity?

- (a) 14 (b) 12
(c) 16 (d) 10

54. How many students participate in toy-making activity?

- (a) 16 (b) 12
(c) 10 (d) 20

55. How many students participated in flower-making activity?

- (a) 12 (b) 10
(c) 16 (d) 20

56. Pointing towards a person in a photograph Rani said, "He is the only son of the father of my sister's brother". How the person in the photograph related to Rani?

- (a) Father (b) Sister
(c) Cousin (d) Brother

57. Consider an alphabetic series shown below as: A, C, F, J
The next two terms of the series are?

- (a) L and P (b) O and U

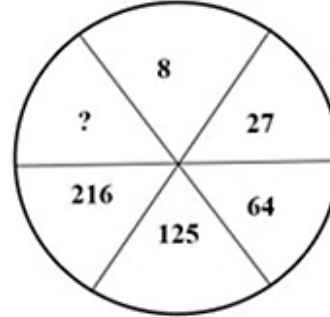
- (c) M and R (d) S and U

58. Find the missing term in the series given below:

6, 8, 4, 6, 3, 5, ?, $\frac{9}{12}$,

- (a) 8 (b) 3
(c) $\frac{5}{2}$ (d) $\frac{9}{4}$

59. The numbers in the figure below have been generated using certain logic/pattern. Using that logic/pattern, find out the number that can be inserted in place of?



- (a) 343 (b) 128
(c) 432 (d) 341

60. If $623 = 49$
 $516 = 62$ and
Then what is 583?

- (a) 36 (b) 98
(c) 65 (d) 69

61. Find the wrong term in the series given below :

1, 9, 33, 105, 158,.....

- (a) 158 (b) 105
(c) 33 (d) 9

62. A man walks 3 kms towards east from his house. He then turns south and walks 4km. Again he turns west and walks 6km. How far is he from the starting point i.e. his house?

- (a) 7 km (b) 4 km
(c) 5 km (d) 3 km

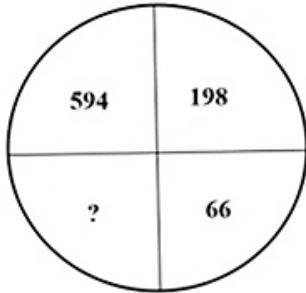
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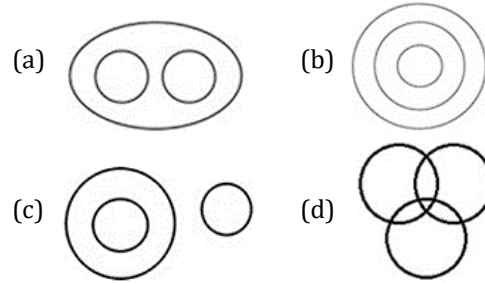


63. The numbers in the figure given below have been generated using some logic / pattern. Using that logic/pattern, find out the number that can be inserted in place of?



- (a) 33 (b) 22
(c) 18 (d) 30

64. Which of the following diagrams indicate the best relation among deer, lion and animals?



65. Based on the relationship between first two words on the left side of :: as given below, choose the correct word in place of ? to express similar relationship

- Botany : Plants :: Entomology : ?
(a) Animals (b) Germs
(c) Birds (d) Insects

66. If '+' means '÷', '÷' means '-', '-' means '×', '×' means '+', then find the value of the following :

$$5 \times (13 - 4 + 2 \div 6 \times 15 \div 5)$$

- (a) 120 (b) 10
(c) 28 (d) 150

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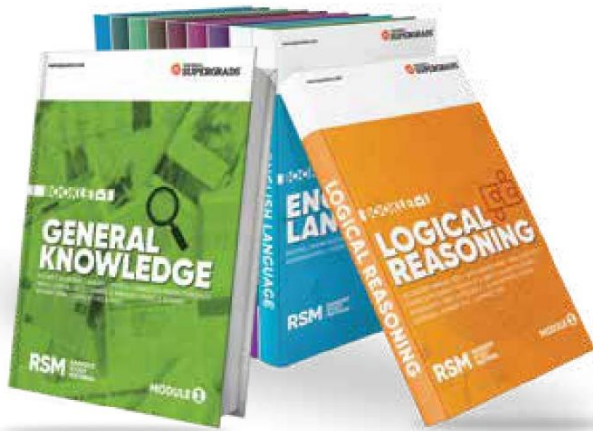
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67. Rearrange the following parts of a sentence in order to make a meaningful sentence

- P. responsible for anything
- Q. we would be held
- R. that went wrong
- S. we were told that

- (a) RQPS (b) SQRP
- (c) SQPR (d) PQRS

68. A person belonging to the same period with another person is called _____

- (a) predecessor (b) contemptuous
- (c) contemporary (d) successor

69. Fill in the blank with a suitable word.

Brevity is the soul _____ wit.

- (a) with (b) for
- (c) of (d) off

70. Fill in the blank with a suitable preposition.

He broke _____ in the middle of his speech

- (a) of (b) apart
- (c) down (d) for

71. Each question has a sentence with two blanks followed by four pairs of words as choices. From the choices, select the pair of words that can best complete the given sentence.

During the epidemic, the vaccine was ___ to ___ the spread of the disease.

- (a) used relieve
- (b) gave fake out
- (c) prescribed Prove
- (d) administered.... Combat

72. Fill in the blank with the most appropriate word. All we have to fear is fear _.

- (a) ourselves (b) myself
- (c) itself (d) Yourself

73. Identify the word which means the same as 'sift'.

- (a) examine (b) calamity
- (c) worthiness (d) problematic

74. Fill in the blank with a suitable preposition.

I prefer reading a book _____ watching a movie.

- (a) then , (b) over
- (c) To (d) Against

75. Pick out the correct sentence in passive voice of the following sentence :

We compelled the enemy to surrender

- (a) The enemy is compelled to surrender by us.
- (b) We compell the enemy to surrender.
- (c) The enemy was compelling to surrender by us.
- (d) The enemy was compelled to surrender by us.

76. Which of the following sentences is correct?

- (a) He was selected the very best player of the tournament. ,
- (b) He was selected the more best player of the tournament. ,
- (c) He was selected the more better player of the tournament.
- (d) He was selected the best player of the tournament.


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77. Which of the following sentences is correct?

- (a) The coach ordered the player to not leave the camp
- (b) The coach ordered the player for not leave the camp
- (c) The coach ordered the player not to leave the camp
- (d) The coach order the player not to leave the camp

- 78.** Pick out the correctly spelled word :
- (a) gratitus (b) occasional
(c) ocasional (d) occasionally
- 79.** Pick out the part of sentence which has an error. If there is no error mark '4'.
It wasn't necessary for her (A)/ to take time of work (B)/ when her son was ill (C)/
- (a) A (b) B
(c) C (d) No error
- 80.** Pick out the correct sentence in passive voice of the following sentence:
Some boys were helping the wounded man.
- (a) The wounded man was helping some boys
(b) The wounded man was being helped by some boys
(c) The wounded man is helped by some boys
(d) The wounded man was helped by some boys
- 81.** Pick out the part of sentence which has an error. If there is no error mark '4'.
A white rhinoceros is close to extinction
- A B C
- (a) A (b) B
(c) C (d) No error
- 82.** Which of the following sentences is correct?
- (a) Though my grandfather is very old but he is very active
(b) My grandfather is not inactive for his old age
(c) My grandfather is without activities but his old age
(d) Although my grandfather is very old, he is very active
- 83.** What figure(s) of speech are used in the given sentence?
My beloved is like a red red rose
- (a) Simile and Metaphor
(b) Simile and alliteration
(c) Metaphor and hyperbole
(d) Metaphor and Imagery
- 84.** Fill in the blank with the most appropriate word.
When people are _____, as long as they hold fast to their language, it is as if they have the key to their prison.
- (a) enslave (b) unslaved
(c) enslaved (d) prisoners
- 85.** The following sentence is divided into three parts. One of the parts has an error. Identify the part which has an error. If there is no error, mark '4'
The admission ticket entitling her to win a prize
- A B C
- (a) A (b) B
(c) C (d) No error
- 86.** This question has a sentence with two blanks followed by four pair of words as choices from the choices, select the pair of words that can best complete the given sentence.
We are truly _____ to the many hands and hearts that made this book_____.
- (a) obliged plausible (b) honoured feasible
(c) grateful.... possible (d) thankful flexible
- 87.** Find out an appropriate synonym for the word Ebullient:
- (a) Athletic (b) Energetic
(c) Indolent (d) Lethargic
- 88.** Pick out the correct sentence in indirect speech of the following sentence:
He said to me, "What are you doing?"
- (a) He asked me what he was doing.
(b) He asked me that what I was doing.
(c) He asked me what I was doing.
(d) He asked me why I was doing
- 89.** Fill in the blanks with a suitable form of verb
Neither of the players _____adequately prepared for the tournament.
- (a) are (b) is
(c) am (d) were
- 90.** Fill in the blank with the suitable form of verb
No sooner did the chairman _____than the directors put up their demand.
- (a) had arrived (b) arrived
(c) arrive (d) will arrive
- 91.** Rearrange the following parts of a sentence in order to make a meaningful sentence
P for five years, I was sure
Q when I decided to go abroad
R that my grandmother would be upset
S and at her age one could never tell
- (a) RSPQ (b) PSRQ
(c) SPQR (d) QPRS


Directions (Q.92-Q.98): Read the following passage carefully and answer the questions that follow.

Man's growth from barbarism into civilization is supposed to be the theme of history. But sometimes, looking at great stretches of history, it is difficult to believe that we are very much civilized or advanced. There is enough of want of co-operation today as we see one country or people selfishly exploiting another.

Man in many ways has not made very great progress from other animals. Still, we look down upon the insects as almost the lowest of living things and yet the tiny bees and ants have learnt the art of co-operation and of sacrifice for the common good far better than man. If mutual co-operation and sacrifice for the good of society are the test of civilization, we may say that the bees and ants are superior to man. The old saying goes as follows: "For the family, sacrifice the individual, for the community, the family, for the country, the community, and for the soul, the whole world." It teaches us the lesson of co-operation and sacrifice for the larger good which we may have forgotten. How wonderful it is to see men and women, and boys and girls smilingly going ahead on the path of progress without caring any pain or suffering? Well, may they smile and be glad for the joy of serving a great cause which is theirs; and for those who are fortunate, comes the joy of sacrifice too.

92. How can we be truly civilized?
 (a) by getting more wealth
 (b) by getting more power
 (c) by getting higher education
 (d) by developing qualities of mutual help
93. Animals are superior to men because of their _____
 (a) Physical strength
 (b) great instinct for co-operation
 (c) rude and blind behavior
 (d) carefree life
94. What is the theme of above passage?
 (a) The Rise and Fall of Empires
 (b) Man's search for Truth
 (c) Man's Moral and Spiritual Development
 (d) Man's quest for Idealism

95. What is the basic reason of exploitation of one man by another?
 (a) Moral Turpitude
 (b) Lack of Education
 (c) High Ethics
 (d) Weakness of some people
96. Pick out the correct sentence in indirect narration of the following sentence:
 He said, "How wise I am?"
 (a) He exclaimed that I was very wise.
 (b) He exclaimed that he was very wise
 (c) He exclaimed that I am very wise
 (d) He regretted that he was very wise.
97. Pick out the antonym of the word 'dissimulate'
 (a) concrete (b) circulate
 (c) concealed (d) Reveal
98. Pick out the correct sentence from the following sentences
 (a) He didn't liked to attend the lecture
 (b) He hadn't like to attend the lecture
 (c) He haven't liked to attend the lecture
 (d) He didn't like to attend the lecture
99. Pick out the part of sentence which has an error. If there is no error, mark '4'
 As I haven't see all the evidence.(A)/ I am reluctant (B)/ to make a judgment (C)
 (a) A (b) B
 (c) C (d) No error
100. Pick out the antonym of the word 'jocund'
 (a) zealous (b) cheerful
 (c) gloomy (d) Optimistic



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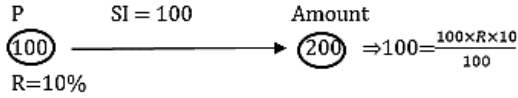
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ANSWER KEY AND EXPLANATIONS

1. (c) is the correct answer.

$$\Rightarrow SI = \frac{P \times R \times T}{100}$$



2. (a) is the correct answer.

$$\Rightarrow P = I \times T$$

P	:	Q	:	R
25000	:	50,000	:	25,000
$\Rightarrow 1$:	2	:	1

\Rightarrow Total profit = 4 Unit

$$\Rightarrow Q = \frac{4800}{4} \times 2 = 2400\text{₹}$$

3. (b) A. $\rightarrow 6x^2 + x - 12 = 0$

$$\Rightarrow (i) - 12, 6 = -72$$

$$\Rightarrow (ii) - 8, -9$$

$$\Rightarrow (iii) - 9, 8$$

$$\Rightarrow (iv) \frac{8}{6}, \frac{-9}{6} = \left(\frac{4}{3}, \frac{-3}{2}\right)$$

A \rightarrow (IV) Only in option: - 2

4. (c) is the correct answer.

$$+202$$

$$5000 \rightarrow 5202$$

5% 3%

M F

$$250 \quad 150$$

$$52 \quad 48$$

$$13 \quad 12$$

$$\Rightarrow M = \frac{5000}{25} \times 13 = 2600$$

$$\Rightarrow F = \frac{5000}{25} \times 12 = 2400$$

5. (b) $33\frac{1}{3}\% = \frac{1}{3} \Rightarrow$ A : B

4 : 3

$$- 1$$

$$\Rightarrow \frac{1}{4} \times 100\%$$

$$= 25\%$$

6. (d) (A) $\sin^2 41 + \sin^2 49 = 1$ [$\because \sin(90 - \theta) = \cos \theta$]

$$\sin^2 41 + \sin^2(90 - 41) = 1$$

$$\sin^2 41 + \cos^2 41 = 1 \quad (\text{A True})$$

$$(B) \sin^2 60 - 2 \tan 45 - \cos^2 30 = -1$$

$$\left(\frac{\sqrt{3}}{2}\right)^2 - 2 \times 1 - \left(\frac{\sqrt{3}}{2}\right)^2 = -1$$

$$-2 \neq -1 \quad (\text{B false})$$

$$(C) \sin^2 \theta + \frac{1}{1 + \tan^2 \theta} = 1 \quad [(1 + \tan^2 \theta = \sec^2 \theta)]$$

$$\sin^2 \theta + \cos^2 \theta = 1 \quad (\text{C true}) \quad \& \quad \left(\frac{1}{\sec^2 \theta} = \cos^2 \theta\right)$$

7. (a) $x^4 + 10x^3 + 25x^2 + 15x + m$

$$\text{Put } x = -7$$

$$2401 - 3430 + 1225 - 105 + m = 0$$

$$M = -91$$

8. (a) Area = $\frac{22}{7} \times \pi r^2 = 22176$

$$r = 84 \text{ cm}$$

$$\text{Perimeter} = 2 \times \frac{22}{7} \times 84 \text{ cm}$$

$$\{\text{Cost} = 50 \text{ ₹ / meter} = \frac{1}{2} \text{ ₹ / centimetre}\}$$

$$\text{Fencing Cost} = 2 \times 22 \times 12 \times \frac{1}{2} = 264 \text{ ₹}$$

9. (d) $\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{(n-1)n}$

$$\frac{2-1}{1 \times 2} + \frac{3-2}{2 \times 3} + \frac{4-3}{3 \times 4} + \dots + \frac{n-(n-1)}{(n-1)n}$$

$$1 - \frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \frac{1}{3} - \frac{1}{4} + \dots + \frac{1}{n}$$

$$= 1 + \frac{1}{n}$$

$$\frac{n+1}{n}$$

10. (d) A $\rightarrow \frac{1}{4}$ work $\Rightarrow 3$ Days A $\Rightarrow 12$ Let

$$\text{Total work} = 24 \text{ unit}$$

$$A \rightarrow \frac{1}{6}$$
 work $\Rightarrow 4$ Days B = 24

So the efficiency of A & B is 2 : 1

$$A : B = 2 : 1 \Rightarrow A = \frac{180\text{₹}}{3} \times 2$$

$$= 120\text{₹}$$

11. (c) is the correct answer.

12. (b) 500000:364500

$$1000 : 729$$

$$10\% = \frac{1}{10} \Rightarrow 10 : 9$$

$$10^3 : 9^3$$

$$3 \rightarrow \text{years}$$

13. (a) is the correct answer.

M:W M : W

$$30 \text{ litre} \Rightarrow 7:3 \Rightarrow$$

$$21 \text{ liter}$$

$$9 \text{ liter}$$

$$+0$$

$$+x \rightarrow 5 \text{ liter}$$

$$40\% = \frac{2}{5} \quad 2 = \text{water} \quad 21 \text{ liter}$$

$$14 \times 7$$

$$\text{Milk} = 3 \quad 7 \times 3$$

$$2 \times 7$$

14. (c) Statement (i) $392 = 2^3 \times 7^2$

$$[a^m \times b^n]$$

$$\text{Prim factor} = m + n$$

$$\text{Prime factory} = 3+2$$

$$= 5$$

{Statement (i) true}

Statement (ii)

$$\frac{13}{2^3 \times 5} = \frac{13}{4 \times 10} = \frac{1.3}{4}$$

$$= 0.325 \text{ (3 decimal place)}$$

{Statement (ii) False}

15. (a) P(Exactly one of A or B)

$$\begin{aligned} \Rightarrow P(A\bar{B}) + P(\bar{A}B) &= \frac{5}{9} \\ \Rightarrow P(A)P(\bar{B}) + P(\bar{A})P(B) &= \frac{5}{9} \\ \Rightarrow P(A)(1 - P(B)) + (1 - P(A))P(B) &= \frac{5}{9} \\ \Rightarrow P(1 - 2p) + (1 - p)2p &= \frac{5}{9} \\ \Rightarrow 36P^2 - 27P + 5 &= 0 \\ \Rightarrow P &= \frac{1}{3} \text{ or } \frac{5}{12} \\ P_{\max} &= \frac{5}{12} \end{aligned}$$

16. (c) $\frac{30}{U} + \frac{28}{D} = 7$ -----I

$\frac{21}{U} + \frac{21}{D} = 5$ -----II

From equation I & II $\Rightarrow D=14$
 $\Rightarrow U=16$

$B = \frac{D+U}{2} = \frac{14+16}{2} = 15$

$S = \frac{D-U}{2} = \frac{14-16}{2} = -1$

Statement (i) false statement (ii) true

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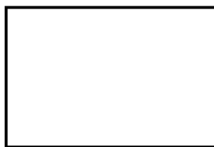
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17. (c) is the correct answer.

1517



902

HCF of (1517 & 902)
 = 41 → side of square Tiles
 No. of Tiles = $\frac{\text{Area of room}}{\text{Area of 1-tile}}$
 = $\frac{1517 \times 902}{41 \times 41}$
 = 814

18. (b) A

C $\frac{60km}{\leftarrow 48 \rightarrow \leftarrow 12 \rightarrow}$
 $\frac{B}{A}$

B
 t → constant

$\frac{D_1}{D_2} = \frac{S_1}{S_2}$

A : B

Distance :- 48 : 72

Speed :- 2 : 3

1 unit → 4 km/hr

Speed of B is 2 unit = 2 × 4 km/hr = 8 km/hr

19. (a) Let HCF = x so, LCM = 12x

$x + 12x = 403$

$13x = 403$ so, $x = 31$

$Lcm \times Hcf = a \times b$

$31 \times 12 \times 31 = 93 \times b$

$b = 124$

20. (a) is the correct answer.

Let Present age of father = 6x and son = x

After four years Ratio of Father and son is 4 : 1

ATQ : $\frac{6x+4}{x+4} = \frac{4}{1}$

X = 6

6 x = 36 years

Or Smart Approach :-

F : S

Present:- 6 : 1

+4 yrs:- $\frac{4}{4yr} : \frac{1}{4yr}$

→ 6 × 1 - 4 × 1

2unit

→ 4 × 4 - 4 × 1

12yrs

→ 2 unit = 12 years

1unit = 6years

Father = 6 × 6 = 36 years

Son = 6 years

21. (b) is the correct answer.

A : N

-3yrs:- 8 : 9

+3yrs:- $\frac{11}{6yr} : \frac{12}{6yrs}$

→ 11 × 9 - 12 × 8

3unit

→ 12 × 6 - 11 × 6

6yrs

1unit = 2years

Amisha = 8 × 2 = 16 years

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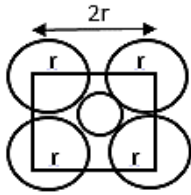


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22. (c) is the correct answer.

Let inner circle radius = R



$$\begin{aligned} \text{Length of diagonal} &= r + 2R + r \\ &= 2(R + r) \\ &\Rightarrow 2(R + r) = 2r\sqrt{2} \\ R + r &= r\sqrt{2} \\ R &= r(\sqrt{2} - 1) \end{aligned}$$

23. (c) $ax^2 + bx + c = 0$

$$\sin \alpha + \cos \alpha = \frac{-b}{a} \sin \alpha, \cos \alpha = \frac{c}{a}$$

Squaring both side \rightarrow

$$(\sin \alpha + \cos \alpha)^2 = \left(\frac{-b}{a}\right)^2$$

$$\sin^2 \alpha + \cos^2 \alpha + 2\sin \alpha \cos \alpha = \frac{b^2}{a^2}$$

$$1 + 2 \times \frac{-b}{a} = \frac{b^2}{a^2}$$

$$1 + 2 \times \frac{c}{a} = \frac{b^2}{a^2}$$

$$a^2 + 2ac = b^2$$

24. (a) $\frac{a+b+c}{3} = M \Rightarrow a + b + c = 3M$

$$\frac{a^2+b^2+c^2}{3} = km^2 \Rightarrow a^2 + b^2 + c^2 = 3km^2$$

$$(ab + bc + ca) = 0$$

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$$

$$9m^2 = 3km^2$$

$$K = 3$$

25. (b) Mean of first five prime numbers:-

$$= \frac{2+3+5+7+11}{5} = \frac{28}{5} = 5.6$$

A \rightarrow (III) only in option - 2

26. (d) $\sqrt{8 - 2\sqrt{15}} = \sqrt{(\sqrt{5} - \sqrt{3})^2} =$

$$(\sqrt{5} - \sqrt{3})$$

$$\sqrt{11 + 2\sqrt{30}} = \sqrt{(\sqrt{6} + \sqrt{5})^2} = (\sqrt{6} + \sqrt{5})$$

$$\begin{aligned} \frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}} + \frac{\sqrt{6}+\sqrt{5}}{\sqrt{6}-\sqrt{5}} &\Rightarrow \frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}} \times \frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}+\sqrt{3}} + \frac{\sqrt{6}+\sqrt{5}}{\sqrt{6}-\sqrt{5}} \times \frac{\sqrt{6}+\sqrt{5}}{\sqrt{6}+\sqrt{5}} \\ &\Rightarrow \frac{8+2\sqrt{15}}{2} + \frac{11+2\sqrt{30}}{1} \\ &\Rightarrow 4 - \sqrt{15} + 11 + 2\sqrt{30} \\ &\Rightarrow 15 + \sqrt{15} + 2\sqrt{30} \end{aligned}$$

27. (c) $a \times b = 2a - 3b + ab$

$$3 \times 5 + 5 \times 3$$

$$\text{Step 1:- } 3 \times 5 = 2 \times 3 - 3 \times 5 + 3 \times 5$$

$$= 6 - 15 + 15 = 6$$

$$\text{Step 2:- } 5 \times 3 = 2 \times 5 - 3 \times 3 + 5 \times 3$$

$$= 10 - 9 + 15 = 16$$

$$16 + 6 = 22$$

28. (d) $\frac{A^3+B^3}{A^2-AB+B^2} = \frac{(A+B)(A^2-AB+B^2)}{(A^2-AB+B^2)}$

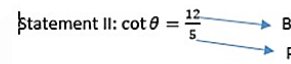
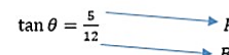
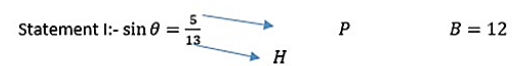
$$= A + B$$

$$= 325 + 175$$

$$= 500$$

29. (a) is the correct answer.

30. (c) is the correct answer.



$$\sin \theta = \frac{5}{13}$$

{ Statement (ii) False }

31. (b) By option $\rightarrow 42 - 24 = 18$

$$(4 + 2) = 6$$

$$6 \times 7 = 42$$

32. (d) $\frac{a}{b+c} = \frac{b}{c+a} = \frac{c}{a+b} = k$

$$a = (b + c)k, b = (c + a)k, c = (a + b)k$$

$$(a + b + c) = 2k(a + b + c)$$

$$K = \frac{1}{2}$$

33. (b) $(x - h)^2 + (y - k)^2 = r^2$ { where h and k = center and r = radius }

$$(4,5) \quad (2,2)$$

$$r = \sqrt{(4 - 2)^2 + (5 - 2)^2} = \sqrt{13}$$

$$(x - 2)^2 + (y - 2)^2 = 13$$

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34. (c) Total Tax paid $\rightarrow 32 + 34.6 + 38.8 + 42.4 + 42.6 = 190.4$

Cost of

Components $\rightarrow 296 + 332 + 382 + 410 + 428 = 1848$

Ratio $= \frac{190.4}{1848} = \frac{17}{165}$ or $\frac{14}{138}$

Tax paid & Cost of Components

Approximately Same

35. (b) Expenditure in

2000 $\rightarrow 288 + 296 + 26.4 + 12.2 + 32.0 = 654.6$

2003 $\rightarrow 305 + 410 + 28.6 + 15.2 + 42.4 = 801.2$

$= \frac{654.6}{801.2} \times 100$

$= 81.7\%$

36. (a) 2000 $\rightarrow 288$

2001 $\rightarrow 299$

$299 - 288 = \frac{11}{288} \times 100$

$\Rightarrow 3.8$ (in 2001)

A Teacher has partial data of the students result:

Sex	Grade			Total
	A	B	C	
Girls				40
Boys	5			
Total		30		

The other information available is - Half the students have grade A and B 50% of the students are girls $\frac{1}{4}$ of boys have grade C

37. (a)

Sex	Grade			Total
	A	B	C	
Girls	5	5	30	40
Boys	5	25	10	40
Total	10	30	40	80

No. of Girls who have grade B = 5

No. of Girls who have Grade C = 30

38. (b) No. Girls $\rightarrow 40$

No. of Boys. $\rightarrow 40$

Total Students $\rightarrow 80$

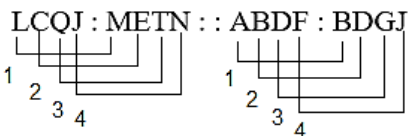
39. (a) No of Girls of Grade A $\rightarrow 5$

Total (Girls Boys) = 10

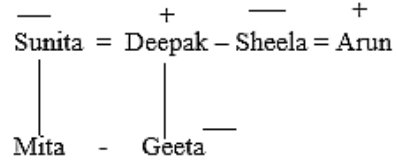
40. (a) No. of Boys have Grade B $\rightarrow 25$

No. of Boys have Grade c $\rightarrow 10$

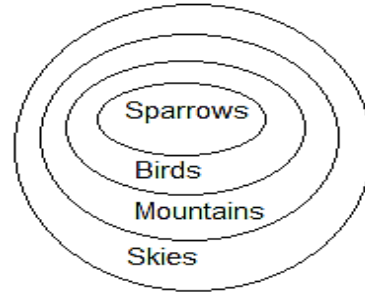
41. (d) BDGJ



42. (c) is the correct answer.



43. (c) is the correct answer.



Only I and IV Follow

44. (a) *shift letters*
First Letter become Lost

Remaining Letter \wedge Place Left Side

\wedge
Shit One

45. (c)

Person	History	Biology	Math	Physics	Chemistry
A	✓	✓	✓	—	✓
B	—	—	—	✓	—
C	✓	✓	—	—	✓
D	—	—	—	✓	✓

46. (b) Red Ball $\rightarrow = \frac{1000 \times 21}{100} = 210$

Orange Ball $\rightarrow \frac{1000 \times 14}{100} = 140$

Yellow Ball $\rightarrow \frac{21 \times 1000}{100} = 210$

Pink Ball $= \frac{12 \times 1000}{100} = 120$

Blue Ball $= \frac{14 \times 1000}{100} = 140$

Green Ball $= \frac{18 \times 1000}{100} = 180$

Color	Light :dark	No. of light ; No of Dark
Red	3:4	90:120
Blue	5:3	87.5:52.5
Green	1:3	45:135
Pink	1:7	15:105
Yellow	9:5	135:75
Orange	7:9	61.25:78.75

Pink Ball $= \frac{12 \times 1000}{100} = 120$

$\rightarrow 120$

47. (b) Red Ball $\rightarrow = \frac{1000 \times 21}{100} = 210$

Orange Ball $\rightarrow \frac{1000 \times 14}{100} = 140$

Yellow Ball $\rightarrow \frac{21 \times 1000}{100} = 210$

Pink Ball = $\frac{12 \times 1000}{100} = 120$

Blue Ball = $\frac{14 \times 1000}{100} = 140$

Green Ball = $\frac{18 \times 1000}{100} = 180$

Color	Light :dark	No. of light ; No of Dark
Red	3:4	90:120
Blue	5:3	875:525
Green	1:3	45:135
Pink	1:7	15:105
Yellow	9:5	135:75
Orange	7:9	61:25:78:75

Green Ball → 180

48. (b) Red Ball → $\frac{1000 \times 21}{100} = 210$

Orange Ball → $\frac{1000 \times 14}{100} = 140$

Yellow Ball → $\frac{21 \times 1000}{100} = 210$

Pink Ball = $\frac{12 \times 1000}{100} = 120$

Blue Ball = $\frac{14 \times 1000}{100} = 140$

Green Ball = $\frac{18 \times 1000}{100} = 180$

Color	Light :dark	No. of light ; No of Dark
Red	3:4	90:120
Blue	5:3	875:525
Green	1:3	45:135
Pink	1:7	15:105
Yellow	9:5	135:75
Orange	7:9	61:25:78:75

Orange + Yellow + Pink

$14 + 21 + 12 \rightarrow 47\%$

49. (a) Red Ball → $\frac{1000 \times 21}{100} = 210$

Orange Ball → $\frac{1000 \times 14}{100} = 140$

Yellow Ball → $\frac{21 \times 1000}{100} = 210$

Pink Ball = $\frac{12 \times 1000}{100} = 120$

Blue Ball = $\frac{14 \times 1000}{100} = 140$

Green Ball = $\frac{18 \times 1000}{100} = 180$

Color	Light :dark	No. of light ; No of Dark
Red	3:4	90:120
Blue	5:3	875:525
Green	1:3	45:135
Pink	1:7	15:105
Yellow	9:5	135:75
Orange	7:9	61:25:78:75

Light Red Ball - No of Darks Yellow

= 90 - 75

= 15

50. (c) Red Ball → $\frac{1000 \times 21}{100} = 210$

Orange Ball → $\frac{1000 \times 14}{100} = 140$

Yellow Ball → $\frac{21 \times 1000}{100} = 210$

Pink Ball = $\frac{12 \times 1000}{100} = 120$

Blue Ball = $\frac{14 \times 1000}{100} = 140$

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Color	Light :dark	No. of light ; No of Dark
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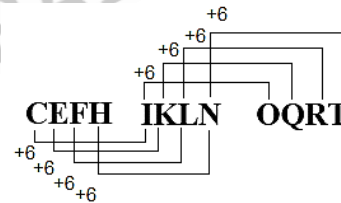
$\frac{\text{Dark Pink}}{\text{Dark Green}} = \frac{105}{135} \frac{21}{27} \frac{7}{9}$

7:9

51. (b) is the correct answer.

Person	Sport	Club	Dance
Jaspreet	Sports	Theater	Tennis
Rohit	Swim	Eco	
Rihana	Badmin	Dance	
Blessy	Tennis	Eco	

52. (d) is the correct answer.



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53. (a) Mask Making + Paper Quilling

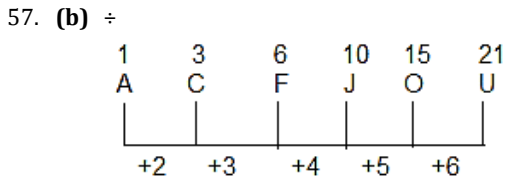
$$= (15\% + 20\%) \text{ of } 40$$

$$= 35\% \text{ of } 40$$

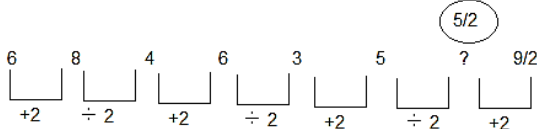
$$= \frac{35 \times 40}{100} = 14$$

54. (b) Toy Making = $\frac{30 \times 40}{100} = 12$
55. (b) Flower Making = $\frac{25}{100} \times 40\% = 10\%$

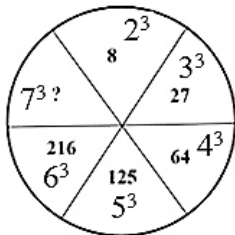
56. (d) Father
 ↑ ↓
 Rani - Sister - Brother (he)
 Brother



58. (c) is the correct answer.



59. (a) is the correct answer.



$$2^3 = 8$$

$$3^3 = 27$$

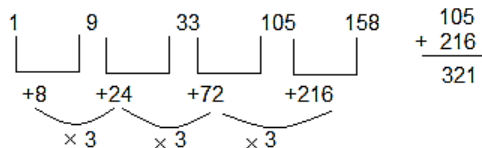
$$4^3 = 64$$

$$5^3 = 125$$

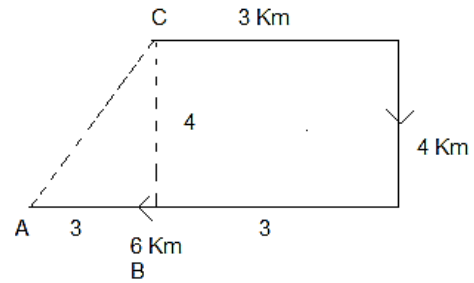
$$6^3 = 216$$

$$7^3 = 343$$

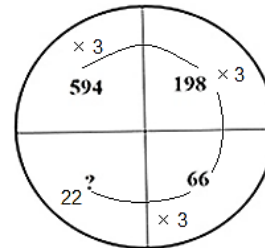
60. (b) is the correct answer.
61. (a) is the correct answer.



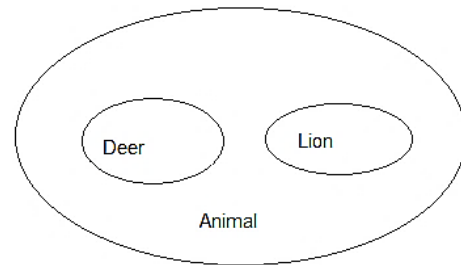
62. (c) $AC^2 = AB^2 + BC^2$
 $= 3^2 + 4^2$
 $= 9 + 16$
 $AC = \sqrt{25}$
 $= 5\text{Km}$



63. (b) $594 \div 3 = 198$
 $198 \div 3 = 66$
 $66 \div 3 = 22$



64. (a) is the correct answer.



65. (d) Botany is the study of plants similarly, entomology is the study of insects
66. (d) $5 \times (13 \times 4 \div 2 - 6 + 15 - 5)$
 $5 \times (13 \times 2 - 6 + 15 - 5)$
 $5 \times (26 \frac{26-6}{20} + \frac{15-5}{10}) = 5 \times (20 + 10)$
 $5 \times 30 = 150$
67. (c) To solve jumbled paragraph questions, it is important to find the beginning / starting sentence and the mandatory pairing (first sentence follows the second). Here in this question, Q and P are mandatory pair. So, let's begin with the Option (a), Option (a) can be easily eliminated here as (R) cannot be the starting statement. Option (b) is incorrect because Q and P are the mandatory pair. Option (d) is incorrect because starting statement cannot be "P". Hence, the answer is (c).
68. (c) It is a vocabulary based question. In the above question, basic knowledge of prefix and suffix can help you find the correct answer. Also, key is to find an answer illustrating "the same period".
 Option (a)_ predecessor a person who has previously occupied a position or office to which another has

succeeded. Prefix "pre" for previous not for the same time.

Option (b)_ Contemptuous_ came from contempt_ to look down on with disrespect.

Option (d)_ successor_ one that follows.

Hence, the answer is (c) contemporary_ happening, existing, living, or coming into being during the same period of time. Simultaneous.

69. (c) The correct phrase is 'Brevity is the soul of wit', a famous line from Shakespeare's play. 'Of' is the correct preposition to use here, indicating possession. 'With', 'for', and 'off' do not fit contextually."

70. (c) The verb "break" follows many prepositions and constitutes several meanings too.

Option (a) Break of_ is an incorrect phrasal verb. It should have been "break off"(to become detached) or "break of the day"(dawn) etc.

Option (b)_ Break apart_ dismantle, separate or break up into pieces. Doesn't go with the above sentence.

Option (c)_ Break down_ cry or upset, separate into smaller parts, stop working is a better choice that aptly goes with the overall meaning of the sentence.

Option (d) Break for_(something)_ escape, to go somewhere quickly.

71. (d) a drug can be prescribed or administered by a medical professional or a doctor. So we can eliminate "used" and "gave" here. We don't fake out(fool or mislead), relive or prove a disease but we combat , treat or fight with it.

72. (c) It's a famous quote by the American president Franklin D. You need to remember it as it is.

Furthermore, reflexive pronouns (ourselves, myself etc.) usually follow the below structure:

Subject+verb + object + reflexive pronoun

They completed the homework by themselves.

In the above sentence_reflexive pronoun for fear will be itself.

73. (a) It's a vocabulary related question. Sift_ examine thoroughly or look through something.

Calamity_ a serious accident or bad event causing damage or suffering. Synonyms_catastrophe, disaster
Worthiness_ how suitable someone or something is: suitability, acceptability.

Problematic_ causing difficulty, or hard to deal with:

74. (c) we will use "prefer to" or prefer + to when we describe an action using a verb. For example, I prefer eating mutton, to eating chicken – where "eating" is the verb. Also, we use preposition "over" when we are attempting to make a comparison using nouns. For example, I prefer mutton over chicken – where "mutton" and "chicken" are the nouns.

75. (d) In order to solve questions related to active and passive voice, one has to always highlight the verb in the given sentence. We use helping verbs(is, am, are, was were, being, been, have, had, be etc.) to change an active sentence into a passive one.

In the above question, the given statement is in the simple past so the correct structure for passive will be_ Object+ helping verb of simple past (was / were)+main verb past participle+ infinitive verb + by +object pronoun

Hence, the answer is (d).

76. (d) Superlative adjectives follow the definite article "the". Double comparatives (more better) and double superlatives (most smartest, very best) are considered serious grammatical mistakes.

77. (c) We use reported speech to express orders. The structure is usually_ Subject (the coach) + ordered + someone(the player) + (not) to do something(not to leave the camp)

Example: Rohan ordered Sohan not to sit on the chair.

78. (b) (a) Usually the common words are gratitude or gratuitous so needs to eliminate it.
(b) And (d) both are correct. Key is double "cc" here.

79. (b) Part B should have been_ to take time off the work.

80. (b) Passive structure for the past continuous tense is_ Object+was/were+being+main verb past participle + by+ Subject. Hence, the correct answer choice is option B.

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81. (a) When referring to the entire species in general, we use "The" before the name of the animal. Therefore, "A white rhinoceros" should be replaced with "The white rhinoceros" to indicate the species as a whole.
(a) Error - "A" should be changed to "The" for correct usage in this context.
(b) No error - The verb "is" correctly agrees with the singular form white rhinoceros when referring to the species.
(c) No error - "close to extinction" is correct.
(d) Incorrect - There is an error in part A.
Correct sentence: The white rhinoceros is close to extinction.
82. (d) "Though", "although" and "even though" are subordinating conjunctions that link a dependent clause to an independent clause. When a sentence begins with these conjunctions, we normally place a comma before the main clause, and we must avoid adding "but" after them as it causes redundancy.
(a) Incorrect - "Though ... but ..." is a double contrast and grammatically incorrect.
(b) Incorrect - "not inactive for his old age" is awkward and unidiomatic.
(c) Incorrect - "without activities but his old age" is nonsensical.
(d) Correct - concise, grammatically accurate, and idiomatic.
83. (b) A simile compares two things using the words like or as. In the sentence, "is like a red red rose" directly compares "my beloved" to a rose, making it a simile.
Alliteration is the repetition of initial consonant sounds in nearby words; here, the repeated "r" sound in "red red rose" is an example.
(a) Incorrect - This is not a metaphor; metaphors do not use "like" or "as".
(b) Correct - Simile + Alliteration are both present.
(c) Incorrect - No exaggeration (hyperbole) is present.
(d) Incorrect - Although imagery is used, the more accurate second figure here is alliteration.
84. (c) As it is a passive sentence so (a) and (d) can be eliminated here. Unslaved is an incorrect word hence the answer should be C. Enslave means- to make a slave or to force someone to remain in a bad situation :
85. (b) Part B should be "entitles her"...Present simple tense instead of present continuous tense. We use continuous tense when something is going on. It's a generic statement hence present simple tense should be used.
86. (c) We need to find a combination that has two positive words. The key here is the second gap. Option (d) should be eliminated because of the word flexible.
Plausible_ reasonable or believable
Feasible_ practical, realistic
But possible seems the obvious choice for the second gap.
Obliged- thankful, grateful, appreciative
Honoured-regard with great respect, recognize or celebrate.
87. (b) The key here is to remember that "ebullient derives from the Latin verb ebullire, which means "to bubble out" bubbling out of energy....
Indolent_lazy(just opposite of ebullient)
Lethargic_ Usually used with lazy (meaning sluggish or dull)
88. (c) We usually use reported questions with the verb "ask" and we don't use "that".
Structure: He asked (me)
why/when/where/what/how... (question-word questions)
Also, as with reported statements, we may need to change pronouns and tense (backshift) as well as time and place in reported questions.
But we also need to change the word order. After we report a question, it is no longer a question. The word order is (subject-verb-object).
Hence, the answer is (c)
89. (b) The subject is "Neither of the players".
Rule: The words neither and either are singular when they refer to one of two people or things. Although players is plural, the actual subject is neither (meaning "not one"), which takes a singular verb. Therefore, the correct form is is in the present tense.
(a) are - Incorrect; plural verb does not agree with singular subject.
(b) is - Correct; matches singular subject.
(c) am - Incorrect; used only with pronoun I.
(d) were - Incorrect; plural past tense, does not fit here.
90. (c) Points to remember_ No sooner follows "than" and usually the past perfect tense. When used in simple past(did)_ it follows verb 1st form.
91. (d) Here QP is a mandatory pair followed by R. Option (a) is wrong because it is starting with R. Option (b) and C are wrong because P and S cannot be the starting stmts. Read the following passage carefully and answer the questions that follow.

92. **(d)** As per the given passage (d) is the answer a, b, c are easy to eliminate. The passage talks about co-operation and of sacrifice for the common goods.
93. **(b)** Except for (b) other options are not given in the passage.
94. **(c)** For the family, sacrifice the individual, for the community, the family, for the country, the community, and for the soul, the whole world supports option (c)
95. **(a)** Again elimination can help here. Moral immorality / turpitude was something mentioned in the passage (progress without caring any pain or suffering for other)
96. **(b)** As it's sudden outburst of joy, Option (d) can be eliminated.
Also, the pronoun of the reported speech (how wise I am) is changed according to the pronoun of the reporting verb (He said).
97. **(d)** dissimulate _ conceal or disguise so opposite will be reveal.

Concrete clear and certain

Circulate to move around or through:

- Concealed kept hidden or where it cannot easily be seen:

98. **(d)** (a) is incorrect. (didn't liked)
(b) Is incorrect_ hadn't liked
(c) He haven't- he hasn't
Since we are talking about the past hence (d) is grammatically correct.
99. **(a)** Should have been haven't seen. We use past participle (v3) with perfect tenses.
100. **(c)** Jocund , joyful, cheerful are synonyms so only negative word is option (c). Jocund seems to have a common root word as joyful, jovial etc have. So, antonym should be a negative word.
Zealous-enthusiastic, avid or passionate
Cheerful_ joyful
Optimistic-believe in positivity

510+



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