

M.Voc Technology and Management

1.  $2 + 2^2 + 2^3 + \dots + 2^9 = ?$
- (A) 1022  
(B) 1056  
(C) 2044  
(D) None of the above
2. A rectangular courtyard 3.78 metres long and 5.25 metres wide is to be paved exactly with square tiles, all of the same size. What is the largest size of the tile which could be used for the purpose?
- (A) 14 cms  
(B) 42 cms  
(C) 21 cms  
(D) 24 cms
3. A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is
- (A) 276  
(B) 250  
(C) 235  
(D) 285
4. The average price of three items of furniture is Rs.15000. If their prices are in the ratio 3:5:7, the price of the cheapest item is
- (A) Rs. 18000  
(B) Rs. 9000  
(C) Rs. 6000  
(D) Rs. 13500

5. A certain factory employed 600 men and 400 women and the average wage was Rs.25.50 per day. If a woman got Rs.5 less than a man, then what are their daily wages?
- (A) Man: Rs.25; Woman: Rs.20  
(B) Man: Rs.30; Woman: Rs.25  
(C) Man: Rs.27.50; Woman: Rs.22.50  
(D) Man: Rs.32.50; Woman: Rs.27.50
6. A two digit number becomes five-sixth of itself when its digits are reversed. The two digits differ by one. The number is
- (A) 45  
(B) 56  
(C) 54  
(D) 65
7. When the numerator of a fraction increases by 4, the fraction increases by  $\frac{2}{3}$ . The denominator of the fraction is
- (A) 2  
(B) 3  
(C) 4  
(D) 6
8. The sum of the squares of three consecutive natural numbers is 2030. What is the middle number?
- (A) 25  
(B) 26  
(C) 27  
(D) 28
9. The age of father 10 years ago was thrice the age of his son. Ten years hence, father's age will be twice that of his son. The ratio of their present ages is
- (A) 5:2  
(B) 7:3  
(C) 9:2  
(D) 13:4

10. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks were 56% of the sum of their marks. The marks obtained by them are
- (A) 39, 30
  - (B) 41, 32
  - (C) 42, 33
  - (D) 43, 34
11. Ranjith spends 40% of his salary on food, 20% on house rent, 10% on entertainment and 10% on conveyance. If his savings at the end of a month are Rs.1500, then his monthly salary is
- (A) Rs. 6000
  - (B) Rs. 7500
  - (C) Rs. 8000
  - (D) Rs. 10000
12. 40% of the people read newspaper X, 50% read newspaper Y and 10% read both the papers. What percentage of the people read neither newspaper X nor Y?
- (A) 10%
  - (B) 15%
  - (C) 20%
  - (D) 25%
13. A trader mixes three varieties of peanuts costing Rs.50, Rs.20 and Rs.30 per Kg in the ratio 2:4:3 in terms of weight and sells the mixture at Rs.33 per Kg. What percentage of profit does he make?
- (A) 8%
  - (B) 9%
  - (C) 10%
  - (D) None of the above
14. In a mixture of 60 litres, the ratio of milk and water is 2:1. If this ratio is to be 1:2, then the quantity of water to be further added is
- (A) 20 litres
  - (B) 30 litres
  - (C) 40 litres
  - (D) 60 litres

15. A man walking at the rate of 5 km/hr crosses a bridge in 15 minutes. The length of the bridge in metres is
- (A) 600
  - (B) 750
  - (C) 1000
  - (D) 1250
16. An express train travelled at an average speed of 100 km/hr stopping for 3 minutes after every 75 km. How long did it take to reach its destination 600 km from the starting point?
- (A) 6 hrs 21 min
  - (B) 6 hrs 24 min
  - (C) 6 hrs 27 min
  - (D) 6 hrs 30 min
17. A person travels from P to Q at a speed of 40 km/hr and returns by increasing his speed by 50%. What is his average speed for both the trips?
- (A) 36 km/hr
  - (B) 45 km/hr
  - (C) 48 km/hr
  - (D) 50 km/hr
18. A courtyard 25m long and 16m broad is to be paved with bricks of dimensions 20 cm by 10 cm. The total number of bricks required is
- (A) 18000
  - (B) 20000
  - (C) 25000
  - (D) None of the above
19. A rectangle has width  $a$  and length  $b$ . If the width is decreased by 20% and the length is increased by 10%, then what is the area of the new rectangle in percentage compared to ' $ab$ '?
- (A) 80%
  - (B) 88%
  - (C) 110%
  - (D) 120%

20. The perimeter of a right angled triangle is 60 cm. Its hypotenuse is 26 cm. The area of the triangle is
- (A)  $120 \text{ cm}^2$
  - (B)  $240 \text{ cm}^2$
  - (C)  $390 \text{ cm}^2$
  - (D)  $780 \text{ cm}^2$
21. A circular park has a path of uniform width around it. The difference between outer and inner circumferences of the circular path is 132m. Its width is
- (A) 20 m
  - (B) 21 m
  - (C) 22 m
  - (D) 24 m
22. If the radius of a sphere is doubled, how many times does its volume become?
- (A) 2 times
  - (B) 4 times
  - (C) 6 times
  - (D) 8 times
23. In how many ways a committee, consisting of 5 men and 6 women can be formed from 8 men and 10 women?
- (A) 206
  - (B) 5040
  - (C) 11760
  - (D) 8540
24. In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is the probability that it is neither red nor green?
- (A)  $1/3$
  - (B)  $3/4$
  - (C)  $7/19$
  - (D)  $8/21$

25. In a simultaneous throw of two dice, what is the probability of getting a total of 7?
- (A)  $\frac{1}{6}$   
(B)  $\frac{1}{4}$   
(C)  $\frac{2}{3}$   
(D)  $\frac{3}{4}$
26. If  $(n-1)$  is an odd number, what are the other two odd numbers nearest to it?
- (A)  $n, n+1$   
(B)  $n, n-2$   
(C)  $n-3, n+1$   
(D)  $n-3, n+5$
27. The number of prime numbers between 0 and 50 is
- (A) 14  
(B) 15  
(C) 16  
(D) 17
28. A can type 10 pages in 5 minutes. B can type 5 pages in 10 minutes. Working together, how many pages can they type in 30 minutes?
- (A) 15  
(B) 25  
(C) 65  
(D) 75
29. What is the sum of two consecutive even numbers, the difference of whose squares is 84?
- (A) 32  
(B) 34  
(C) 38  
(D) 42
30. An institute organised a fete and  $\frac{1}{5}$  of the girls and  $\frac{1}{8}$  of the boys participated in the same. What fraction of the total number of students took part in the fete?
- (A)  $\frac{2}{13}$   
(B)  $\frac{13}{40}$   
(C) Data inadequate  
(D) None of the above

31. A is 3 years older to B and 3 years younger to C, while B and D are twins. How many years older is C to D?
- (A) 2  
(B) 3  
(C) 6  
(D) 12
32. The 30 members of a club decided to play a badminton singles tournament. Every time a member loses a game he is out of the tournament. There are no ties. What is the minimum number of matches that must be played to determine the winner?
- (A) 15  
(B) 29  
(C) 61  
(D) None of the above
33. There are deer and peacocks in a zoo. By counting heads they are 80. The number of their legs is 200. How many peacocks are there?
- (A) 20  
(B) 30  
(C) 50  
(D) 60
34. A man wears socks of two colours - black and brown. He has altogether 20 black socks and 20 brown socks in a drawer. Supposing he has to take out the socks in the dark, how many must he take out to be sure that he has a matching pair?
- (A) 3  
(B) 20  
(C) 39  
(D) None of the above
35. Five bells begin to toll together and toll respectively at intervals of 6, 5, 7, 10 and 12 seconds. How many times will they toll together in one hour excluding the one at the start?
- (A) 7 times  
(B) 8 times  
(C) 9 times  
(D) 11 times

36. A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether?
- (A) 100  
(B) 104  
(C) 108  
(D) None of the above
37. A certain number of horses and an equal number of men are going somewhere. Half of the owners are on their horses' back while the remaining ones are walking along leading their horses. If the number of legs walking on the ground is 70, how many horses are there?
- (A) 10  
(B) 12  
(C) 14  
(D) 16
38. In a cricket match, five batsmen A, B, C, D and E scored an average of 36 runs. D Scored 5 more than E; E scored 8 fewer than A; B scored as many as D and E combined; and B and C scored 107 between them. How many runs did E score?
- (A) 62  
(B) 45  
(C) 28  
(D) 20
39. In a family, each daughter has the same number of brothers as she has sisters and each son has twice as many sisters as he has brothers. How many sons are there in the family?
- (A) 2  
(B) 3  
(C) 4  
(D) 5
40. A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on these fruits. The number of pineapples purchased is
- (A) 2  
(B) 3  
(C) 4  
(D) Data inadequate



41. A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has?
- (A) 45  
(B) 60  
(C) 75  
(D) 90
42. 2, 7, 14, 23, ?, 47. Replace the question mark.
- (A) 31  
(B) 28  
(C) 34  
(D) 38
43. 4, 6, 12, 14, 28, 30, ? Replace the question mark.
- (A) 32  
(B) 64  
(C) 62  
(D) 60
44. 0.5, 0.55, 0.65, 0.8, ? Replace the question mark.
- (A) 0.7  
(B) 0.9  
(C) 0.95  
(D) 1
45. 13, 35, 57, 79, 911, ? Replace the question mark.
- (A) 1145  
(B) 1113  
(C) 1117  
(D) 1110

46. Ajith parked his bike at 9<sup>th</sup> place from left and 28<sup>th</sup> from right. How many bikes are parked in a row?
- (A) 37  
(B) 38  
(C) 36  
(D) 35
47. In a hotel chairs are placed in a row for a party. 60 persons have joined the party. 17 persons are between Eliza and Greeshma. Eliza is 25<sup>th</sup> from the right end of the row. If Eliza is nearer than Greeshma to the right end of the row, then how far away is Greeshma from the left end of the row?
- (A) 14  
(B) 16  
(C) 17  
(D) 18
48. In an examination a student scores 5 marks for every correct answer and loses 2 marks for every incorrect answer. If he attempted all 50 questions and secured 180 marks, then the number of questions answered correctly is
- (A) 42  
(B) 43  
(C) 40  
(D) 46
49. In an organization consisting of 600 employees, the number of males and females selected for a new project are in the ratio 3:2. The number of females not selected is 50 more than the number of males not selected. If the total number of males selected is 150, how many females are there in the organization?
- (A) 200  
(B) 250  
(C) 300  
(D) 225

**Direction (Q.Nos. 50 to 52): Read the following data carefully and answer the questions.**

Five athletes from different states participating in the National games wish to communicate.

Athlete A can speak Hindi and Punjabi

Athlete B can speak Bengali and Hindi

Athlete C can speak Hindi and Tamil

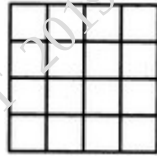
Athlete D can speak Punjabi and also Tamil

Athlete E can speak Tamil and Bengali

50. Which pair of athletes can communicate with each other with only an interpreter?
- (A) Athletes A and D
  - (B) Athletes E and B
  - (C) Athletes B and D
  - (D) Athletes C and D
51. Which athlete can act as an interpreter when A and E wish to communicate?
- (A) Athlete D only
  - (B) Athlete B only
  - (C) Athletes B and D
  - (D) Athletes C and B
52. Of the languages spoken by the athletes which are the two most common languages?
- (A) Hindi and Punjabi
  - (B) Tamil and Hindi
  - (C) Punjabi and Tamil
  - (D) Bengali and Punjabi
53. Which word does NOT belong with the others?
- (A) core
  - (B) seeds
  - (C) pulp
  - (D) slice

54. Which word does NOT belong with the others?
- (A) cornea
  - (B) retina
  - (C) pupil
  - (D) vision
55. PETAL : FLOWER. Find the pair that has a similar relationship.
- (A) salt: pepper
  - (B) tire: bicycle
  - (C) base: ball
  - (D) sandals: shoes
56. ODOMETER : DISTANCE. Find the pair that has a similar relationship.
- (A) scale : weight
  - (B) length : width
  - (C) inch : foot
  - (D) mileage : speed
57. PEDAL : BICYCLE. Find the pair that has a similar relationship.
- (A) inch : yardstick
  - (B) walk : skip
  - (C) tire : automobile
  - (D) oar : canoe
58. Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years, what is the difference between R and Q's age?
- (A) 1 year
  - (B) 2 years
  - (C) 25 years
  - (D) Data insufficient

59. Count the number of squares in the given figure.



- (A) 32
- (B) 30
- (C) 29
- (D) 28

**Direction (Q.Nos. 60 to 64):** Study the following information carefully and answer the given questions.

One of the Seven subjects viz. Maths, Zoology, Botany, Chemistry, Physics, English and Statistics is taught on one day in a week starting from Monday and ending on Sunday. Chemistry is taught on Thursday. English is taught the day immediately next to the day when Zoology is taught. English is neither taught on Tuesday nor Saturday. Only one lecture is held between Chemistry and Botany. Two Lectures are scheduled between Maths and Zoology. Statistics is neither taught on Monday nor Sunday.

60. On which of the following days is Physics taught?

- (A) Monday
- (B) Tuesday
- (C) Wednesday
- (D) Thursday

61. How many subjects are taught between Botany and Zoology?

- (A) None
- (B) One
- (C) Two
- (D) Three

62. Which of the following subjects is taught on Saturday?

- (A) Botany
- (B) Statistics
- (C) Zoology
- (D) Maths

63. On which of the following days is Statistics taught?
- (A) Tuesday
  - (B) Wednesday
  - (C) Thursday
  - (D) Friday
64. If Statistics is related to Zoology and Physics is related to Botany in a certain way, then to which of the following would Chemistry be related to, following the same pattern?
- (A) Maths
  - (B) Statistics
  - (C) Physics
  - (D) Cannot be determined
65. A's mother's father is the husband of B's mother. How is A related to B, if A and B are both male?
- (A) Uncle
  - (B) Father
  - (C) Nephew
  - (D) Son
66. A's father's mother-in-law's only daughter's son is B. How is A related to B?
- (A) Brother
  - (B) Sister
  - (C) Nephew
  - (D) Cannot be determined
67. If cook is called television, television is called radio, radio is called oven, oven is called grinder and grinder is called iron, in what will a lady bake?
- (A) Radio
  - (B) Oven
  - (C) Grinder
  - (D) Iron
68. A cube, painted on all its faces, is cut into 125 identical smaller cubes. How many smaller cubes have no face painted?
- (A) 100
  - (B) 81
  - (C) 64
  - (D) 27

69. What is the minimum number of cuts required to cut a cube into 24 identical pieces?
- (A) 6
  - (B) 8
  - (C) 9
  - (D) 12

**Direction (Q.Nos. 70 to 74):** Study the following table carefully and answer the questions.

Number of different classes of vehicles sold in the country over the years

Year	Class I	Class II	Class III	Class IV	Class V
2010	26	64	232	153	340
2011	45	60	242	172	355
2012	72	79	248	210	404
2013	81	93	280	241	411
2014	107	112	266	255	442
Total	331	408	1268	1011	1933

70. The percentage increase in sales in 2013 over the previous year was maximum for which class of vehicles?
- (A) class III
  - (B) class I
  - (C) class IV
  - (D) class II
71. In which year was the number of class V vehicles sold the highest percentage of the total number of vehicles sold during that year?
- (A) 2014
  - (B) 2011
  - (C) 2010
  - (D) 2012
72. The number of Class I vehicles sold in 2013 was approximately what percentage of the total number of vehicles sold in 2012?
- (A) 8
  - (B) 10
  - (C) 7
  - (D) 9

73. If the same percentage increase in the number of Class I vehicles sold in 2014 over 2013 is expected in 2015, how many vehicles will be sold in 2015?
- (A) 139  
(B) 141  
(C) 144  
(D) 133
74. In which of the following years was the number of class II vehicles sold approximately 25% of the number of class V vehicles sold?
- (A) 2013  
(B) 2011  
(C) 2010  
(D) 2014

**Direction (Q.Nos. 75 to 78):** Read the following passage carefully and answer the questions.

Mr. Biswas, a car dealer sold cars of only two brands A and B, in the previous year. In the current year, he introduced a new brand C. The number of cars of A and B sold in the previous year was in the ratio 3:2 and the ratio of the number of cars sold in the previous year to that sold this year is 2:3 for brand A and 2:5 for brand B. Further the number of cars of brand C sold this year forms 81% of the total number of cars sold this year.

75. Find the number of cars of brand C sold this year given that a total of 24 cars of brand A were sold in the previous year.
- (A) 324  
(B) 648  
(C) 162  
(D) 243
76. What is the percentage increase in the total number of cars sold this year compared to the total number sold in the previous year?
- (A) 400%  
(B) 600%  
(C) 900%  
(D) 1000%



77. In the next year Biswas wants to increase the total sales by 80% compared to the total sales this year, by keeping the sales each of A,B and C at the same level as in this year and introducing a new brand D. By what percentage will the number of cars of brand D (to be sold next year) be more than the total number of cars sold last year?
- (A) 400%  
 (B) 600%  
 (C) 900%  
 (D) 700%
78. If a total of 330 cars were sold this year and the sale of brand C were nil, instead of 81% of total sales, then how many cars of brand A were sold in the previous year?
- (A) 140  
 (B) 120  
 (C) 100  
 (D) 160

**Direction (Q.Nos. 79 to 84):** Study the chart given below and answer the questions.

Number of Students Appeared (App) and Qualified (Qua) in Preliminary exam from various exams over the years

Exams	Years									
	2013		2014		2015		2016		2017	
	App	Qua	App	Qua	App	Qua	App	Qua	App	Qua
RRB PO	1470	1165	1684	1500	1654	1566	1564	1462	1545	1240
RRB Cler.	1390	1072	1550	1278	1897	1689	1575	1383	1647	1106
IBPS PO	1364	1145	1754	1210	1574	1024	1519	1214	1765	1567
IBPS Clerk	1478	1388	1806	1586	1886	1542	1654	1296	1530	1234
IBPS SO	1560	1389	1666	1498	2004	1930	1690	1480	1605	1356

79. What is the approximate average number of candidates appeared for the Preliminary exam from IBPS Clerk over all the years?
- (A) 1874  
 (B) 1498  
 (C) 1671  
 (D) 1521

80. What is the difference between the number of students appeared but not qualified in the Preliminary exam from RRB PO in the year 2015 and the number of students appeared but not qualified in the Preliminary exam from the same exam in the year 2013?
- (A) 187  
(B) 192  
(C) 211  
(D) 178
81. What is the percentage of the candidates qualified over the number of candidates appeared for the Preliminary exam in the year 2014 from all exams together?
- (A) 97.56  
(B) 68.82  
(C) 75.49  
(D) 83.59
82. Approximately what is the percentage of candidates qualified over appeared from all the exams together in 2016?
- (A) 76  
(B) 65  
(C) 60  
(D) 86
83. Percentage of candidates qualified over appeared from IBPS PO is the lowest during which of the following years?
- (A) 2017  
(B) 2015  
(C) 2014  
(D) 2016

**Direction :** Fill in the blanks with the most appropriate word from the options given below.

84. The arrow flew \_\_\_\_\_ off the target
- (A) Widely  
(B) Near  
(C) Wide  
(D) Straight

85. **Direction :** Fill in the blanks with the most appropriate word from the options given below.

A recent survey identified the UK as ..... place in Europe to buy a car.

- (A) most expensive
- (B) the more expensive
- (C) more expensive
- (D) the most expensive

86. **Direction :** Fill in the blanks with the most appropriate word from the options given below.

You should ..... martial arts

- (A) take off
- (B) take up
- (C) take over
- (D) take in

87. **Direction :** Fill in the blanks with the most appropriate word from the options given below.

I ..... to London three weeks ago to take up a new job

- (A) moved
- (B) have moved
- (C) had moved
- (D) has moved

88. **Direction :** Fill in the blanks with the most appropriate word from the options given below.

Kate spent the morning ..... along the beach.

- (A) rambling
- (B) strolling
- (C) loitering
- (D) lingering

89. Maya dances well, .....? Choose the correct question tag.

- (A) Isn't it
- (B) Does she
- (C) Doesn't she
- (D) Doesn't Maya

90. He is not keeping well, .....? Choose the correct question tag.

- (A) Does he
- (B) Has he
- (C) Is he
- (D) Isn't he

91. Find out the correctly spelt word.

- (A) Achevement
- (B) Achievement
- (C) Acheivement
- (D) Achievment

92. Find out the correctly spelt word.

- (A) Redudent
- (B) Redndant
- (C) Ridudent
- (D) Redendent

93. A person who donates money to charitable institutions is a

- (A) Socialist
- (B) Puritan
- (C) Philosopher
- (D) Philanthropist

94. 'Industrious' means

- (A) Related to an industry
- (B) Intelligent
- (C) Hardworking
- (D) Busy

95. A tendency to bestow favours on one's relatives

- (A) Prejudice
- (B) Partiality
- (C) Nepotism
- (D) Chauvinism

96. A long narrative poem written in a grand style

- (A) Lyric
- (B) Epic
- (C) Satire
- (D) Ballad

**Direction :** Choose the word from the options given which **best expresses the meaning of the word** given in capital letters

97. OPULENCE

- (A) Poverty
- (B) Penury
- (C) Affluence
- (D) Indigence

98. **Direction :** Choose the word from the options given which **best expresses the meaning of the word** given in capital letters

MOMENTOUS

- (A) Mesmerizing
- (B) Magnificent
- (C) Stormy
- (D) Memorable

99. **Direction :** Choose the word from the options given which **best expresses the meaning of the word** given in capital letters

BUOYANT

- (A) Energetic
- (B) Blissful
- (C) Tedious
- (D) Enticing

100. **Direction:** Fill in the blanks

We are very excited ..... our trip to Spain next week.

- (A) from
- (B) about
- (C) with
- (D) on

101. **Direction:** Fill in the blanks

Almost all politicians were involved ..... the scandal

- (A) on
- (B) in
- (C) with
- (D) for

102. **Direction:** Fill in the blanks

Wearing a seat belt can protect you ..... being killed in a car.

- (A) with
- (B) of
- (C) from
- (D) over

103. **Direction:** Fill in the blanks

Twenty minutes..... the amount of time it takes me to get home from work.

- (A) is
- (B) are
- (C) were
- (D) have

104. **Direction:** Fill in the blanks

One of my friends ..... in E.S.P.

- (A) believe
- (B) believes
- (C) is believing
- (D) are believed

**Direction :** Select the word that is most closely **opposite in meaning to the word in capital letters.**

105. DISCORDANT

- (A) harsh
- (B) different
- (C) harmonious
- (D) separate

106. **Direction :** Select the word that is most closely **opposite in meaning to the word in capital letters.**

DISSEMINATED

- (A) network
- (B) interact

- (C) acquaint
- (D) concentrated

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107. **Direction :** Select the word that is most closely **opposite in meaning to the word in capital letters.**

SEGREGATE

- (A) abolish
- (B) confuse
- (C) compile
- (D) spread

**Direction :** Find out the correct pair from the **alternatives given to denote the same relation as established in the question pair.**

108. Surplus : Deficit

- (A) Rainforest : Desert
- (B) Length: Breadth
- (C) Flood : Drought
- (D) Wages : Salary

109. **Direction :** Find out the correct pair from the **alternatives given to denote the same relation as established in the question pair.**

Ruthless : Merciful

- (A) Limpid : Clear
- (B) Rudimentary : Elementary
- (C) Zeal : Apathy
- (D) Petulant : Complaining

**Direction (Q Nos 110 to 112):** The two words on the left have a certain relationship. To obtain the same relationship on the right side, replace the question mark with the correct word from the answer choices.

110. Work: Employment :: Money : ?

- (A) Corruption
- (B) Economy
- (C) Poverty
- (D) Richness

111. Wash : Cleanliness :: Sleep : ?

- (A) Fatigue
- (B) Bed
- (C) Rest
- (D) Night

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112. Thermal : Coal :: Hydel: ?

- (A) Tidal
- (B) Water
- (C) Hydrometer
- (D) Energy

**Direction (Q.Nos. 113 to 116):** Read the passage and answer the questions given below

Although the kangaroo is Australia's most famous indigenous species, few people outside the country know many details about the animal. In fact, there are several different kangaroo species, including the western grey kangaroo, the eastern grey kangaroo, the red kangaroo, and the antilopine kangaroo. Though still bound together by traits characteristic of the genus *Macropus*, the four different types of kangaroo--also known as the four "Great Kangaroos," as they are the largest species in the genus--can behave very differently in terms of their native habitats, activities, and migration patterns.

The eastern grey kangaroo lives, as its name implies, on the east coast of Australia. Not only is the eastern grey the most common kangaroo, but it is also the quickest, as the fastest recorded kangaroo was a large female traveling at 40 miles per hour. It is by far the most populous kangaroo species; around ten million eastern greys inhabit the continent. To put that in perspective, Australia's current human population is only 23 million. The eastern grey prefers to inhabit large open areas of grassland with scrubbery for daytime shelter, as it forages for food at night. Nevertheless, eastern greys have been seen in various climates, including coastal areas, woodlands, subtropical forests, and mountainous regions.

The western grey is difficult to distinguish from the eastern grey; for many years, the two were thought to belong to the same species. The western grey is distinguished, in the first place, by its habitat, on the west (rather than the east) coast of Australia. Secondly, it is different from the eastern grey in that it is a very vocal species. Mother western grey kangaroos communicate to their offspring, or joys, with a series of clicking noises, which eastern grey mothers do not do. Though less adaptable than the eastern grey, the western grey can still be found in a variety of habitats, including grasslands, forests, or woodlands near water. Zoologists believe that the population of western grey kangaroos increased dramatically as Europeans settled in Australia, because this led to the creation of more pastures, where members of the species could find their main food source, grass.

113. The word "indigenous" in paragraph 1 is closest in meaning to

- (A) uncivilized
- (B) local
- (C) ancient
- (D) forest dwelling

114. Which of the following qualities is not found in the eastern grey?
- (A) Adaptable
  - (B) Fast
  - (C) Vocal
  - (D) Searches for food at night
115. Increase in grey kangaroo population with European settlement was the result of
- (A) Greater adaptability
  - (B) Increase in forests
  - (C) Increase in Grasslands
  - (D) Availability of water sources
116. "To put in perspective..." means
- (A) To explain
  - (B) To compare
  - (C) To sum up
  - (D) To give an example

**Direction (Q.Nos. 117 to 120).** Read the passage and answer the questions given below.

Marie was born in 1867 in Warsaw, Poland, where her father was a Professor of Physics. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics.

Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she

never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

117. When she learned that she could not attend the university in Warsaw, she felt
- (A) Hopeless
  - (B) Annoyed
  - (C) Depressed
  - (D) Worried
118. Marie..... left Poland and travelled to France to enter the Sorbonne.
- (A) Challenged authority
  - (B) Showed intelligence
  - (C) Behaved badly
  - (D) Was distressed
119. .... she remembered their joy together.
- (A) Dejectedly
  - (B) Worried
  - (C) Tearfully
  - (D) Happily
120. Even though she became fatally ill from working with radium, Marie Curie was never .....
- (A) Troubled
  - (B) Worried
  - (C) Disappointed
  - (D) Sorrowful
121. This city hosts the World Economic Forum, an annual meeting of global political and business elites.
- (A) Dubai
  - (B) Denver
  - (C) Davos
  - (D) Dublin

122. The Government of India has recently assigned this sector an “Infrastructure Status”.
- (A) Logistics
  - (B) Tourism
  - (C) E-Commerce
  - (D) NGO
123. Identify the project wherein the Government of India plans to build the maximum number of highways in the country.
- (A) Bharatmala
  - (B) Udan
  - (C) Amrut
  - (D) Ujwal
124. This company ceased to sell its brands in India and called it a day in 2017
- (A) General Motors
  - (B) Kia Motors
  - (C) SAIC Motor Corp
  - (D) Honda
125. Name this self-driving technology company from Google
- (A) Alphabet
  - (B) Google Fiber
  - (C) Waymo
  - (D) Loon
126. Name this humanoid, made in India and was present at the Global Entrepreneurship Meet in Hyderabad to greet Indian Prime Minister Shri Narendra Modi and White House Advisor Ms.Ivanka Trump
- (A) Ira
  - (B) Mitra
  - (C) Lakshmi
  - (D) Sophia

127. This city became the first in India to have a logo of its own
- (A) Mumbai
  - (B) Hyderabad
  - (C) Gurugram
  - (D) Bengaluru
128. This form of digital education has revolutionized certification courses online.
- (A) MICE
  - (B) MOGC
  - (C) MACE
  - (D) MODICE
129. This term is used as metrics to value online retail businesses.
- (A) EVM
  - (B) GMV
  - (C) EVA
  - (D) CPM
130. Name the technology that is used in Cryptocurrency
- (A) Artificial Intelligence
  - (B) Blockchain Technology
  - (C) Internet of Things
  - (D) Data Mining
131. Name the Chairman of the Board and Managing Director of General Insurance Company.
- (A) Alice G Vaidyan
  - (B) Mallika Srinivasan
  - (C) Maina Lal Kidwai
  - (D) Vinita Bali
132. Which country tops the ease of doing business in 2018 report?
- (A) New Zealand
  - (B) Norway
  - (C) Finland
  - (D) Canada

133. This business woman leader became the first independent woman director on the board of International Cricket Council (ICC).
- (A) Indra Nooyi
  - (B) Shobana Kamineni
  - (C) Chanda Kochhar
  - (D) Kiran Mazumdar Shaw
134. A pan India electronic trading portal that was launched by Ministry of Agriculture to facilitate farmers, traders, buyers and exporters with a common platform for trading commodities.
- (A) e-NAM
  - (B) e-Choupal
  - (C) e- Sugam
  - (D) e-Sampark
135. Name the Arab country which has withdrawn its membership from OPEC, recently.
- (A) United Arab Emirates
  - (B) Bahrain
  - (C) Qatar
  - (D) Oman
136. Who of the following was appointed as the MD and CEO of Axis bank after Shikha Sharma?
- (A) Usha Sangwan
  - (B) Amitabh Chaudhry
  - (C) Prasad Menon
  - (D) Rohit Bhagat
137. Which pair of two countries quits UNESCO, recently?
- (A) Albania and Bahrain
  - (B) United States and Israel
  - (C) Denmark and Chile
  - (D) Nepal and Germany



138. The cabinet has approved the merger of Vijaya Bank and Dena Bank with ..... and become the first ever three-way merger in Indian banking.
- (A) Axis Bank
  - (B) Union Bank of India
  - (C) Punjab National Bank
  - (D) Bank of Baroda
139. ISRO launched an initiative for students to engage them on space science activities. It was named as
- (A) Space
  - (B) Sansad
  - (C) Samwad
  - (D) Sangrah
140. NPPA controls the prices of pharmaceutical drugs in India. NPPA stands for .....
- (A) National Pharmaceutical Pricing Authority
  - (B) National Product Pricing Authority
  - (C) National Pharmaceutical Pricing Association
  - (D) National Product Pricing Association
141. Who designed satellite phones NVIC to fishermen involved in deep sea fishing?
- (A) Infosys Limited
  - (B) Indian Space Research Organization
  - (C) Department of Telecommunications India
  - (D) Reliance Industries Limited
142. Name the company which has launched the Neighbourly app in Delhi and Bangalore.
- (A) Microsoft
  - (B) Google
  - (C) Oracle
  - (D) Apple

143. This Stock Exchange launched a mobile application and web-based platform for retail investors to buy government securities (G-Secs).
- (A) Bangalore Stock Exchange
  - (B) National Stock Exchange
  - (C) Bombay Stock Exchange
  - (D) Ahmedabad Stock Exchange
144. IIT-Madras has designed India's first and indigenous microprocessor. It was named as
- (A) Dhanu
  - (B) Shakti
  - (C) Ninten
  - (D) Raagu
145. Which of the following tops in the Unified Payments Interface (UPI) payments with over 33% of the overall market share?
- (A) MobiKwik
  - (B) Paytm
  - (C) PhonePe
  - (D) Google Pay
146. Which country has successfully launched a telescope from Antarctica that analyses X-rays arriving from distant neutron stars, black holes, and other exotic celestial bodies?
- (A) USA
  - (B) Japan
  - (C) India
  - (D) China
147. Which of the following is the largest air pollutant?
- (A) Carbon dioxide
  - (B) Carbon monoxide
  - (C) Sulphur dioxide
  - (D) Hydrocarbons

148. Which technology is used by the Indian Railways for tracking of wagons, coaches and locomotives to ensure the effective and transparent functioning of the system?
- (A) RFID
  - (B) Infrared Technology
  - (C) ZigBee Wireless Technology
  - (D) Wi-Fi Technology
149. Who said that members of the same species are not alike?
- (A) Darwin
  - (B) Herbert Spencer
  - (C) Best
  - (D) Good
150. A researcher selects only 10 members as a sample from the total population of 5000 and considers it good because
- (A) he was a good researcher
  - (B) he was guided by his supervisor
  - (C) the population was homogeneous
  - (D) All of the above