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# DRDO CEPTAM Exam

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Simplifying  
Government Exams

 SSC CHSL	 IAS EXAM	 RRB NTPC	 NTSE	 CDS
 SSC CGL	 CBSE UGC NET	 IBPS PO	 NDA	
 SBI PO	 IBPS CLERK	 AFCAT	 SSC JE	 CTET
 CSIR UGC NET	 CAPF	 IBPS RRB		

1. Select the odd letters from the given alternatives.  
A) PD B) RI C) XL D) JE

2. Select the odd word from the given alternatives.  
A) Nile B) Alps C) Yangtze D) Amazon

3. Which among the following is different? Super Tackle, Raider, Bowler, Defender  
A) Super Tackle B) Defender C) Raider D) Bowler

4. In the following question, select the odd number from the given alternatives.  
A) (13, 16) B) (24, 30) C) (55, 100) D) (32, 25)

5. In the following question, select the related letters from the given alternatives. SCID : UFKG :: CODE : ?  
A) ERFH B) EKFH C) ERFG D) EKFG

6. In the following question, select the related word from the given alternatives. Cope : Manage :: Correct : ?  
A) Animated B) Stylized C) Old-Fashioned D) Right

7. In the following question, select the related word from the given alternatives. Wool : Sheep :: Silk : ?  
A) Plant B) Tree C) Worm D) Animal

8. In the following question, select the related number from the given alternatives. 27 : 8 :: 125 : ?  
A) 343 B) 512 C) 216 D) 64

9. In the following question, select the missing number from the given alternatives. 13, 17, 30, 47, 77, 124, ?  
A) 205 B) 201 C) 209 D) 211

10. Which of the following terms follows the trend of the given list? ABCABcABC, ABCAbCABC, ABCaBCABC, ABcABCABC, AbCABCABC, \_\_\_\_\_  
A) ABCABCaBC B) aBCABCABC C) ABCABcABC D) ABCAbCABC

11. Find the wrong term in the following series. J, N, R, W, Z, D  
A) R B) W C) Z D) D

12. In a certain code language, "AGO" is written as "BHP". How is "CRY" written in that code language?  
A) DTA B) DSZ C) DSX D) BSA

13. If MINOR is coded as 1612171821 and CLOCK is coded as 61518614, then how will TABLE be coded as?  
A) 2345158 B) 2435158 C) 2345518 D) 2341558

14. Kapil walks 35 km towards south. He turns right and walks another 35 km. He turns right and walks another 35 km. In which direction is he from his starting point?  
A) East B) North C) South D) West

15. If pointing to Mr. X. Ms. Y said that Mr. X's wife is the only daughter of Ms. Y's father, then Ms. Y is Mr. X's \_\_\_\_\_.  
A) Daughter B) Sister-in-law C) Mother D) Wife

16. D is the daughter of A and wife of B. C is son of B. How is C related to D?  
A) Grandson B) Mother C) Aunt D) Son

17. Directions: Read the following information carefully to answer the question below. 'A\$B' means 'A is mother of B'. 'A#B' means 'A is father of B'. 'A@B' means 'A is husband of B' 'A%B'

means 'A is daughter of B' Which of the following expressions indicates 'H is the brother of N'?

A) H # R \$ D \$ N B) N % F @ D \$ H # R  
C) N % F @ D \$ H D) N % F @ D % H

18. Arrange the following in logical order. I. Decoding II. Encoding III. Source IV. Receiver V. Channel VI. Feedback  
A) V, III, I, II, IV, VI B) II, I, V, IV, III, VI  
C) III, II, V, I, IV, VI D) I, III, II, V, VI, IV

19. Direction: Arrange the given words in the order in which they will be arranged in a dictionary and choose the one that comes Second. i) Expend ii) Expedite iii) Explore iv) Expense  
A) Expedite B) Expense C) Expend D) Explore

20. Rearrange the jumbled up letters in their natural sequence and find the odd one out.  
A) GACEBBA B) LJNRIAB C) RFLUCALWOEI D) PAHCSIN

21. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the matrix given below. The columns and rows of matrix are numbered – from 0 to 4. The letter A from this matrix can be represented first by its row and next by its column, e.g., 'A' can be represented by 04, 33 etc. Identify the set for the word 'DEEP'.

	0	1	2	3	4
0	P	E	S	N	A
1	T	A	P	S	E
2	N	E	A	D	M
3	S	E	D	A	T
4	P	S	M	N	N

A) 23, 01, 13, 00 B) 32, 31, 02, 21  
C) 32, 23, 12, 31 D) 23, 01, 31, 12

22. In the following question, from the given alternative words, select the word which CANNOT be formed using the letters of the given word. VIBRATIONS  
A) VITAMINS B) RATIONS C) STAIN D) BARONS

23. Identify the diagram that best represents the relationship among the given classes. Cat, Kitten, Dog



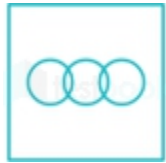
A)



B)



C)



D)

24. Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

**Statements:** Some pan are card. No card are tool. **Conclusions:** I. Some pan are pan. II. All pan are tool.

- A) Neither conclusion I nor IIB) Only conclusion II follows follows  
 C) Both conclusions I and IID) Only conclusion I follows follow

25. In the following question, select the missing number from the given series.

54	9	45
61	12	49
45	10	?

- A) 45 B) 10 C) 35 D) 50

26. T is 5 years older to U. U is 8 years younger to V. V is 3 years older to W. W is 9 years younger to X. Who are of same age?

- A) W and T B) W and V C) V and X D) X and T

27. **Directions:** Which of the following symbols should be placed in the blank spaces respectively (in the same order from left to right) in order to complete the given expression in such a manner that 'U < W' and 'X < A' definitely holds true. **Statement:** U < V \_ W = X \_ Y = Z ≤ A

- A) <, > B) =, ≤  
 C) <, < D) >, <

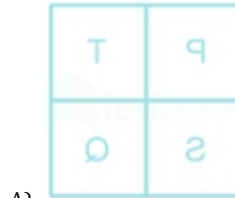
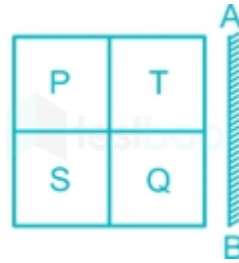
28. If 33%42 = 17, 26%31 = 15 and 28%32 = 22, then find the value of 22%25 = ?

- A) 14 B) 15 C) 16 D) 20

29. Five people P, Q, R, S and T are sitting in straight lie facing North, not necessarily in the same order. T sits at the extreme right end. There is only one person between T and P. Q sits second to the left of P. R is not an immediate neighbour of T. Who sits between P and T?

- A) R B) Q C) S D) Cannot be determined

30. If a mirror is placed on the line AB, then which of the answer figure is the correct mirror image of the question figure?



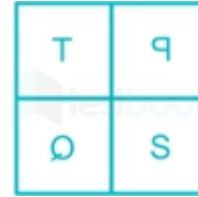
A)



B)



C)



D)

31. The given figure is embedded in one of the given answer figure. Which is that answer figure?

**Problem Figure**



**Answer Figures**



A

A) C



B

B) D



C

C) B



D

D) A

32. Which answer figures will complete the pattern in the question figure?



46. In December 2019, India successfully test-fired the upgraded version of the Pinaka guided rocket system and the all-weather tracked-chassis QR-SAM. What is the maximum range of Pinaka system for Mark-II variant?

- A) 60 km B) 65 km C) 70 km D) 75 km

47. The Chief Minister of which state has launched the 'Madhu' app in December 2019?

- A) Karnataka B) Maharashtra C) Odisha D) Kerala

48. \_\_\_\_\_ is referred to as the 'Father of Indian Civil Aviation';

- A) Homi Bhabha B) Jehangir Ratanji Dadbhoy Tata  
C) Jamshedji Nusserwanji Tata D) Parvez Damania

49. Why does a sprinter keep running even after crossing the finishing line?

- A) The inertia of rest takes some time to make him stop.  
B) The inertia of motion keeps him running.  
C) He wants to make sure that he crosses the line.  
D)

The friction between his shoes and the ground causes him to move beyond the line.

50. Recently, UNESCO has designated Hyderabad as a member of UNESCO Creative Cities Network (UCCN) in the field of \_\_\_\_\_.

- A) Traditional Art B) Gastronomy  
C) Creative Cities Network D) Natural Art

51. Mahavira is believed to be the last of the \_\_\_\_\_ Tirthankaras.

- A) 26 B) 22 C) 20 D) 24

52. When was the battle of Hydaspes fought?

- A) 330 BC B) 318 BC C) 322 BC D) 326 BC

53. In which year Swadeshi Movement started?

- A) 1900 B) 1890 C) 1905 D) 1911

54. India successfully test-fired its indigenously developed surface-to-surface nuclear-capable \_\_\_\_\_ missile from Odisha coast on 3 Dec 2019.

- A) Agni-III B) Prithvi-II C) Agni-I D) Prithvi-I

55. Which of the following elements does NOT belong to group 17?

- A) Bromine B) Argon C) Chlorine D) Fluorine

56. With which country will India be conducting joint Tri services Humanitarian Assistance and Disaster Relief (HADR) Exercise named 'TIGER TRIUMPH'?

- A) Russia B) Japan C) USA D) China

57. Nitin Thimmaiah is related to which sport?

- A) Table Tennis B) Boxing C) Cricket D) Hockey

58. When did DRDO established?

- A) 1958 B) 1963 C) 1959 D) 1955

59. Where will the 3rd edition of the Khelo India Games be held in January 2020?

- A) Chennai B) Dispur C) Guwahati D) Agartala

60. Which Fundamental Right in the Indian Constitution includes abolition of untouchability?

- A) Right to Liberty and Personal B) Right to Freedom of Religion

Freedom

- C) Right to Equality D) Cultural and Educational Rights

61. Economic planning in India is in \_\_\_\_\_.

- A) Union List B) State list  
C) Concurrent list D) No option is correct

62. Who among the following was known for the slogan 'Sare Jahan se Achha Hindustan Hamara' during the Indian Freedom Struggle?

- A) Muhammad Iqbal  
B) Shaheed Bhagat Singh  
C) Pandit Madan Mohan Malviya  
D) None of the above

63. Which of these is the largest brackish lake of India?

- A) Pulicat lake B) Chilka Lake  
C) Wular lake D) Pangong Tso

64. Which of the following states was included as the 28<sup>th</sup> State of India?

- A) Jharkhand B) Chhattisgarh C) Uttarakhand D) Goa

65. The reflector of a searchlight is a:

- A) Plane mirror B) Concave mirror  
C) Cylindrical mirror D) Convex mirror

**Direction:** Read the following passage and answer the questions that follow:

The following graph shows the run rate at the end of the over in a match of Big Bash.

66. What is the total number of runs scored by the team?

- A) 45 B) 46 C) 50 D) 55

67. Two donkeys are standing 400 meters apart. First donkey can run at a speed of 3 m/sec and the second can run at 2 m/sec. If two donkeys run towards each other after how much time (in sec) will they bump into each other?

- A) 60 B) 80 C) 400 D) 40

68. The average of 17 consecutive even integers is 50. The highest of these integers is?

- A) 88 B) 66 C) 126 D) 100



69. Simplify:  $(2.52 \div 1.8) + (2.73 \div 1.3) + (1.44 \div 1.2)$

- A) 4.6      B) 4.7      C) 4.8      D) 4.9

70. Of the 5 numbers whose average is 78, the first is  $\frac{2}{11}$  times the sum of other 4. The first number is

- A) 90      B) 40      C) 60      D) 120

71. The average weight of Somdev, Gurdeep and Ritu is 85 kg. If the average weight of Somdev and Gurdeep be 79 kg and that of Gurdeep and Ritu be 73 kg, then the weight of Gurdeep is

- A) 78      B) 49      C) 72      D) 53

72. A teacher works twice as fast as a student. If a student can complete  $\frac{1}{12}$ th part of the work in a day, the number of days in which the teacher and the student can together finish the work is;

- A) 4 days      B) 6 days      C) 8 days      D) 10 days

73. Having the same capacity 6 taps fill up a water tank in 36 min. How many taps of the same capacity required to fill up the same water tank in 8 min?

- A) 20      B) 27      C) 15      D) 29

74. The maximum number of devotes among which 540 oranges, 450 apples and 630 bananas can be distributed in such a way that number of oranges, apples and bananas remains the same is

- A) 85      B) 90      C) 80      D) 105

75. If the compound interest on a certain sum of money for 2 years at 10% p.a. be Rs. 630, what would be the simple interest for 3 years at the same rate of interest?

- A) Rs. 900      B) Rs. 800      C) Rs. 880      D) Rs. 980

76. A man is 50 years old. His brother is 7 years older than him and his sister is 12 years younger than his brother. When his sister was 20 years old, then the men's age was:

- A) 27 years      B) 19 years      C) 20 years      D) 25 years

77. If  $x - y = -9$  and  $xy = -20$ , then find  $x^2 + y^2$

- A) 61      B) 41      C) 85      D) 113

78. If the volume of a cylinder is 2156 cubic cm and height is 14 cm, find its radius?

- A) 14 cm      B) 21 cm      C) 3.5 cm      D) 7 cm

79. If  $y^2 = y + 7$ , then what is the value of  $y^3$ ?

- A)  $8y + 7$       B)  $y + 14$       C)  $y + 2$       D)  $4y + 7$

80. Two numbers are in the ratio 1 : 3. If each number is increased by 30, the ratio becomes 4 : 7 The first number is

- A) 16      B) 17      C) 18      D) 19

81. A shopkeeper sells a table at a discount of 35% and earns a profit of 30%. If he sells the same table at 40% discount, then what will be his new profit percent?

- A) 10%      B) 20%      C) 40%      D) 80%

82. Divesh while bringing back some cash, lost 20% of that and deposited 75% of the remainder in his bank. If he is left with Rs. 6000, then find the amount he was actually carrying.

- A) Rs. 30000      B) Rs. 80000      C) Rs. 90000      D) Rs. 28500

83. The square root of  $\left[\left(\frac{5}{9}\right) + \left(\frac{3}{81}\right) \div \left(\frac{85}{120}\right)\right] \times \left(\frac{204}{279}\right)$  is

- A)  $\frac{3}{5}$       B)  $\frac{5}{3}$       C)  $\frac{2}{3}$       D)  $\frac{5}{6}$

84. Train A takes 1 hour more than train B to travel a distance of 720 km. Due to engine trouble speed of train B falls to two third,

so it takes 3 hours more than Train A to complete the same journey. What is the speed of Train A (in km/hr)?

- A) 80      B) 90      C) 60      D) 70

85. If the opponent team had scored 59 runs, what should have been the average run rate of the team require to win?

- A) 10      B) 11      C) 11.8      D) 12

86. A bag contains Rs.500 in the form of one rupee, 50 paise and 25 paise coins in the ratio of 3 : 4 : 5. The number of 50 paise coins is

- A) 96      B) 144      C) 160      D) 320

87. Simplify :  $95 - [144 \div (12 \times 12)] - (-4) - \{3 - 17 - 10\}$

- A) 84      B) 66      C) 64      D) 76

88. The value of  $\left(\frac{-1}{125}\right)^{-\frac{1}{3}}$  is?

- A)  $\frac{1}{5}$       B)  $-\frac{1}{5}$       C) 5      D) -5

89. A pen is listed for Rs. 16. A discount of 12% is given on it. A second discount is given bringing the price down to Rs. 10.56. The rate of second discount is

- A) 20%      B) 15%      C) 18%      D) 25%

90. 8L Cold drink was added to a 20L mixture of water and alcohol such that the ratio of alcohol to that of cold drink and water is 1: 3. Find the amount of alcohol in the solution.

- A) 6L      B) 7L      C) 14L      D) 13L

91. On selling an article for Rs. 270, the loss, that incurred, is as much as the profit when the article is sold at 10% profit. The cost price of the article is:

- A) Rs. 290      B) Rs. 310      C) Rs. 300      D) Rs. 363

92. Prakash lends a part of Rs. 20000 at 8% simple interest and remaining at  $\frac{8}{3}\%$  simple interest. His total income after a year was Rs. 800. Find the sum lent at  $\frac{8}{3}\%$ .

- A) Rs. 8750      B) Rs. 13500      C) Rs. 15000      D) Rs. 10000

93. If the opponent team had scored 59 runs, what should be the runs scored in the last over if the runs scored in first four overs are same?

- A) 10      B) 11      C) 27      D) 24

94. A man rows down a river 20 km in 4 h with the stream and returns in 20 h. The speed of the man rowing the boat in still water is

- A) 2 km/h      B) 1.5 km/h      C) 3 km/h      D) 4.5 km/h

95. What is the average run rate of the team?

- A) 9      B) 9.2      C) 9.5      D) 10

96. Find the sum of unit and tenth digit of  $7^{181}$ .

- A) 3      B) 9      C) 7      D) 1

97. A and B can do piece of work in 40 days and 24 days respectively. A started the work alone and then after 8 days A left. B joined till the completion of the work. How long did B work alone?

- A) 16 days  
B)  $19\frac{1}{5}$  days

- C) 18 days  
D)  $18\frac{1}{2}$  days



**98.** A shopkeeper sold two bags for Rs. 2500 Each. He gains 25% on one while on the other he loses 20%. Find whether he made a gain or a loss in the whole transaction and also find the gain/loss percentage.

- A) 2% loss      B) 2.43% loss      C) 5% loss      D) 2.25% loss

**99.** Among three numbers, the first is twice the second and thrice the third. If the average of three numbers is 638, then what is the difference between the first and third number?

- A) 957      B) 503      C) 696      D) 541

**100.** In which overs is the maximum runs scored?

- A) Over 1      B) Over 2      C) Over 3      D) Over 5

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