





18. What is the opposite of "Mute"?
- a) diversify                      b) quicken  
c) harmonize                     d) amplify
19. The scientists made a.....discovery for which he was honored.
- a) sensual                         b) sensational  
c) sensuous                       d) sentimental
20. That charming girl was the.....of all eyes.
- a) aim                      b) target                      c) ambition                      d) cynosure
21. A son who is unable to look his father on the face is:
- a) guilty                              b) arrogant  
c) timid                                d) ashamed
22. He resembles .....his mother. [www.bcanotesnepal.com](http://www.bcanotesnepal.com)
- a) at                      b) in                      c) with                      d) none of these
23. The thunder was accompanied.....heavy rains.
- a) by                      b) with                      c) through                      d) up
24. We passed.....a lot of beautiful towns on the way to the resort.
- a) along                      b) across                      c) through                      d) all

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25. The child was hiding .....the door.
- a) behind                              b) below  
c) among                                d) none
26. My parents got married.....the 1970s.
- a) at                      b) in                      c) from                      d) on
27. Many of us eat.....fork and spoon.
- a) of                                      b) on  
c) to                                        d) with
28. How many people are .....your team?
- a) of                                        b) on  
c) to                                        d) with



Group-B[Mathematics]

41. The slope of the straight line that passes through the point (-1,0) and (3,8) is:  
 a)2                      b)4                      c)6                      d)8
42. The probability of sample space is:  
 a)0                      b)1                      c)2                      d)3
43. The number of subsets of set of order 5 is:  
 a)16                      b)32                      c)8                      d)24
44. The value of  $\frac{\sqrt{3}}{\sqrt{9}}$  is:  
 a) rational number                      b) irrational number  
 c) imaginary number                      d) none of these
45. If the function  $f(x)=x^2-5$ , then  $f(\sqrt{5})$  is equal to  
 a)0                      b) 5  
 c)10                      d) none of these
46. The sum of 1<sup>st</sup> n natural no. of A.P is 55, the value of n is:  
 a)10                      b)12                      c)14                      d)16
47. The value of  $\tan 60^\circ$  is: [www.bcanotesnepal.com](http://www.bcanotesnepal.com)  
 a) $\frac{1}{2}$                       b) $\frac{\sqrt{3}}{2}$                       c) $\sqrt{3}$                       d)1
48. If A and B are arbitrary square matrices of same order, then:  
 a)  $(AB)'=AB'$                       b)  $(AB)'=A'B'$   
 c)  $A'B'=B'A'$                       d)  $(A+B)'=A'-B'$
49. A room is 12m long and 10m wide. If the area of 4 walls is  $176m^2$ , the height of the room is:  
 a) $5m^2$                       b)4m  
 c) $3m^2$                       d)6m
50. The value of  $2^{12}+2^{12}+2^{12}+2^{12}$  is:  
 a) $2^{14}$                       b) $4^{16}$                       c) $2^{16}$                       d) $2^{48}$
51. If A and B are the nonsingular matrices, then,  
 a)  $(AB)^{-1}=A^{-1}B^{-1}$                       b)  $AB=BA$



c)6.88%

d)5.63%

61. An article was sold for Rs.415 at a loss of 17%, what would have been the sale price?

a) Rs.475

b) Rs.490

c) Rs.500

d) Rs.525

62. The value of  $\sin 135^\circ$  is:

a)  $\frac{1}{2}$

b)  $\frac{\sqrt{3}}{2}$

c)  $\frac{1}{\sqrt{2}}$

d)  $\frac{1}{\sqrt{3}}$

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63. The time in ..... years that the sum of money double itself at 10% per annum of interest is:

a) 20yrs

b) 10.5yrs

c) 12yrs

d) 10yrs

64. Today is the birthday of Rahul and he is 3 times as old as Nirmala. In 13 years, Rahul will be one year less than twice as old as Nirmala will be then. The age of Rahul today is:

a)30yrs

b)36yrs

c)49yrs

d)30yrs

65. A number consists of two digits. The sum of its digits is 16. If 18 is subtracted from the number, the digits are interchanged. The number is:

a)73

b)72

c)97

d)24

66. The breadth of a room 4m high is one third of its length. If the cost of painting its wall at the rate of Rs.5 per  $m^2$  is

Rs.640, the cost of carpeting at the rate of Rs.250 per  $m^2$  is:

a)11000

b)12000

c)13000

d)14000

67. If  $7a-b=23$  and  $7b-a=31$ , the value of  $a+b$  is:

a)6

b)7

c)8

d)9

68. The value of  $|(-2-3)-(-2-3)|$  is:

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- a)5                      b)4                      c)3                      d)2
69. If  $f(x)=x^{1/4}+x^{1/2}$ , the value of  $f(16)$  is:  
a)6                      b)8                      c)32                      d)64
70. Which is not true?  
i.  $(A^T)^T=A$                       ii.  $(A+B)^T=A^T+B^T$   
iii.  $(AB)^T=A^T B^T$                       iv.  $(kA)^T=kA^T$ , where  $k$  is a scalar  
a) i                      b) ii                      c) lii                      d) iv
71. The system of equations  $2x+6y=6$  and  $6x+9y=18$  have:  
a) unique solution                      b) no solution  
c) infinitely many solutions                      c) none of these
72. The ratio compounded of 4:9, the duplicate ratio of 3:4 is:  
a)1:4                      b)1:3                      c)3:1                      d)5:6
73. If  $x:y=6:5$ , the value of  $(5x/3y):(5x-3y)$  is equal to:  
a)2:1                      b)3:1                      c)5:3                      d)5:2
74. If  $5x+13=31$ , the value of  $\sqrt{5x+31}$  is:  
a)5                      b)6                      c)7                      d)8
75. The width of a rectangle is 2cm less than its length and its length and perimeter is 12cm. The area of rectangle is:  
a)12cm<sup>2</sup>                      b)24cm<sup>2</sup>                      c)18cm<sup>2</sup>                      d)8cm<sup>2</sup>
76. If  $x-7=1$ , the value of  $x+19$  is:  
a)19                      b)27                      c)38                      d)42
77. The equation of the line that passes through (4,-4) and (4,4) is:  
a)  $x=4$                       b)  $y=4$                       c)  $y=4x$                       d)  $y=4x+4$
78. If  $-7 \leq x \leq 7$  and  $0 \leq y \leq 12$ , the greatest possible value of  $y-x$  is:  
a) 5                      b) 4                      c) 3                      d) 2
79. If  $a, b, c$  are in GP, then



a)  $b^2=ac$

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

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

d) none of these

80. If 13, p, q, r and 29 are in AP, the value of p, q and r are:

a) 17, 21, 25

b) 17, 22, 23

c) 11, 19, 21

d) none of these

81. What price should a shopkeeper mark on an article, coming him Rs. 153 to gain 20%, after allowing a discount of 15%?

a) Rs. 224

b) Rs. 216

c) Rs. 154

d) Rs. 162

82. A sold an article with Rs. 250 profit which is 15% in equivalent. The cost price of the article is:

a) Rs. 1688.8

b) Rs. 1666.67

c) Rs. 1676.70

d) Rs. 1677.70

83. Ramita sold a skirt for Rs. 500 where she had a loss of  $\frac{1}{6}$  of the cost price. The cost price of the skirt is:

a) 605

b) 556

c) 506

d) 600

84. A dealer marks his goods 60% above the cost price. What percent of discount must be allowed, if he makes a profit of 20% only?

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a) 20%

b) 25%

c) 12%

d) 30%

85. If 20% discount was given on math books costing Rs. 250, the selling price S.P is:

a) Rs. 150

b) Rs. 100

c) Rs. 250

d) Rs. 200

86. If  $A = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ , the value of  $A^5$  is

a)  $\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$

b)  $\begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}$

c)  $\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$

d)  $\begin{pmatrix} 2 & -3 \\ 4 & -4 \end{pmatrix}$

87. The number of solutions  $2x+y=4$ ,  $x-2y=3$ ,  $3x+5y=6$  is:

a) 0

b) 1

c) 2

d) 3



a) Cricket

c) Hockey

b) Lawn Tennis

d) Wrestling

97. The first President of Nepal is:

a) Bidhya Devi Bhandari

b) Pushpa kamal Dahal

c) Sher Bahadur Deuba

d) Dr. Ram Baran Yadav

98. The letter 's' in HTTPs understands for:

a) Scared

c) Shape

b) Secured

d) Shine

99. Who is the captain of Nepal's National Cricket team?

a) Anil Gurung

c) Rohit Poudel

b) Gyanendra Malla

d) Parash Khadka

100. Which city is known as 'City of Temples'?

a) Phuket

c) Kathmandu

b) New York

d) Rome

**Answer Key:**

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