



## **National Testing Service**

**GAT – General (Quantitative Section)**

**NOTE: This is GAT-C where:**

**English-40%, Analytical Reasoning-30%, Quantitative-30%**

# **GAT**

**GAT Part-III (Quantitative section)**

71. Solve for  $x$ : when  $\frac{x}{2} + 3 = x - y$

- (A)  $x = y + 2$
- (B)  $x = y + 4$
- (C)  $x = y + 6$
- (D)  $x = 2y + 4$
- (E)  $x = 2y + 6$

72. Find the values of  $x$  and  $y$  from the following equations:

$$3x - 2y = 4$$

$$x + y = 2$$

- (A)  $x = 2$  and  $y = 4$
- (B)  $x = 4$  and  $y = 6$
- (C)  $x = \frac{3}{2}$  and  $y = \frac{2}{3}$
- (D)  $x = \frac{8}{5}$  and  $y = \frac{2}{5}$
- (E)  $x = \frac{4}{3}$  and  $y = \frac{3}{5}$

73. Two workers: A and B can work together in 8 hours, and worker B can work in 12 hours alone. How long worker B will take for same work, while working alone at the same rate?

- (A) 10
- (B) 14
- (C) 20
- (D) 24
- (E) None of these

74. The straight line  $2x + 3y + 4 = 0$  touches the  $x$ -axis at?

- (A)  $x = -2$
- (B)  $x = 2$
- (C)  $x = 1$
- (D)  $x = -1$
- (E)  $x = 0$

75.  $\frac{0.05 \times 0.004}{0.02} = ?$

- (A) 0.001
- (B) 0.01
- (C) 0.1
- (D) 0.2
- (E) 2

76. A shopkeeper had  $n$  bottles. At night,  $s$  bottles left. How many bottles did he sell?

- (A)  $ns - n$
- (B)  $s - n$
- (C)  $ns - 100$
- (D)  $n - s$
- (E)  $ns - s$

77. If 9 eggs cost Rs.60 the 6 eggs are of?

- (A) 30
- (B) 35
- (C) 40
- (D) 45
- (E) 50

78. A library charges  $c$  rupees for the first week that a book is loaned and  $f$  rupees for each day over one week. What is the cost for taking out a book for  $d$  days, where  $d$  is greater than 7?

- (A)  $c + fd$
- (B)  $c + f(d - 7)$
- (C)  $cd$
- (D)  $7c + f(d - 7)$
- (E)  $fd - c$

79. For Mr. A there are 5 trains to go from Karachi to Lahore, and 3 trains to come back to Karachi. In how ways Mr. A complete the trip?

- (A) 8
- (B) 10
- (C) 12
- (D) 13
- (E) 15

80. A gardener brought 5 rabbits, after 2 months rabbits became 10, and after 4 months they became 20. If the growth continues on the same ratio, what would be the amount of rabbits after 1 year?

- (A) 300
- (B) 425
- (C) 535
- (D) 635
- (E) 750

81.  $-4 \leq 3(x-2) < 9$  is equivalent to?

(A) (2,10)

(B) [-2,10)

(C)  $[\frac{2}{3}, 10)$

(D)  $(\frac{2}{3}, 10)$

(E)  $[\frac{2}{3}, 15)$

82. There are 6 blacks, 4 red and 2 white balls in a box. A ball is drawn at random, what is the probability that the ball is red?

(A)  $\frac{1}{2}$

(B)  $\frac{1}{3}$

(C)  $\frac{1}{4}$

(D)  $\frac{2}{3}$

(E)  $\frac{2}{5}$

83. Area of a square is  $9\text{cm}^2$ . Find its perimeter?

(A) 9

(B) 11

(C) 12

(D) 14

(E) 15

84. Find distance of straight line from point A(-3,0) to B(0,1)?

(A)  $\sqrt{5}$

(B) 5

(C)  $\sqrt{10}$

(D) 10

(E) None of these

85. How much interest will Rs.10,000 earn in 8 months at an annual rate of 6%

(A) 400

(B) 420

- (C) 425
- (D) 450
- (E) 470

86.  $66\frac{2}{3}\% = ?$

- (A)  $\frac{1}{2}$
- (B)  $\frac{1}{3}$
- (C)  $\frac{2}{3}$
- (D)  $\frac{3}{2}$
- (E) 3

87. If the ratio of the areas of 2 squares is 2:1 then the ratio of the perimeters of the square is?

- (A) 1:2
- (B)  $1:\sqrt{2}$
- (C)  $\sqrt{2}:1$
- (D) 2:1
- (E) 4:1

88. How many squares with sides  $\frac{1}{2}$  inch long are needed to cover a rectangle that is 4 feet long and 6 feet wide?

- (A) 24
- (B) 96
- (C) 3456
- (D) 13824
- (E) 14266

89. Find the volume of a cylinder of radius 2cm and its height is 14cm?

- (A) 170
- (B) 176
- (C) 182
- (D) 188
- (E) 192

90. If the angles of a triangle are in the ratio 1:2:2, then the triangle

- (A) is isosceles
- (B) is obtuse
- (C) is a right triangle
- (D) is equilateral

(E) has one angle greater than  $80^\circ$

91. Successive discounts of 20% and 15% are equal to a single discount of

- (A) 30%
- (B) 32%
- (C) 34%
- (D) 35%
- (E) 36%

92. A car currently travels 15 miles on a gallon of gas but after a tune-up the car will use only  $\frac{3}{4}$  as much gas as it does now. How many miles will the car travel on a gallon of gas after the tune-up?

- (A) 15
- (B)  $16\frac{1}{2}$
- (C)  $17\frac{1}{2}$
- (D)  $18\frac{3}{4}$
- (E) 20

93. If a triangle has base  $B$  and the altitude of the triangle is twice the base, then the area of the triangle is

- (A)  $\frac{1}{2}AB$
- (B)  $AB$
- (C)  $\frac{1}{2}B^2$
- (D)  $B^2$
- (E)  $2B^2$

94. If the product of two numbers is 10 and the sum of the two numbers is 7, then the larger of the two numbers is

- (A) -2
- (B) 2
- (C) 3
- (D)  $4\frac{1}{4}$
- (E) 5

95. 15% of a number is 168. Find the number?

- (A) 900
- (B) 960
- (C) 1020
- (D) 1060
- (E) 1120

96. A dice is tossed only once. What is the probability that the number is less than 3?

- (A) 0
- (B)  $\frac{1}{4}$
- (C)  $\frac{1}{3}$
- (D)  $\frac{1}{2}$
- (E) 1

97. Find average of the numbers: 4, 11, 0, 13, and 12

- (A) 4
- (B) 6
- (C) 8
- (D) 10
- (E) 12

98. When  $54x$  is divided by 71, the remainder is 26. Where  $x = ?$

- (A) 7
- (B) 9
- (C) 11
- (D) 12
- (E) 13

99.  $\sqrt[4]{-9} = ?$

- (A)  $\sqrt{3}$
- (B)  $\sqrt{-3}$
- (C) 3
- (D) Cannot be evaluated
- (E) None of these

100.  $\log_3 81 = ?$

- (A) 0
- (B) 1

- (C) 2
- (D) 3
- (E) 4

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# GAT