



# BOARD QUESTION PAPER : MARCH 2018

## ALGEBRA

Time: 2 Hours

Total Marks: 40

Notes:

- i. All questions are compulsory.
- ii. Use of calculator is not allowed.

Q.P. SET CODE

**B**1. Attempt any *five* of the following subquestions:

[5]

- i. Find next two terms of an A.P. 4, 9, 14,.....
- ii. State whether the given equation is quadratic or not. Give reason.  

$$\frac{5}{4} m^2 - 7 = 0.$$
- iii. If  $D_1 = 25$ ,  $D = 5$  are the values of the determinants for certain simultaneous equations in  $x$  and  $y$ , find  $x$ .
- iv. If  $S = \{2, 4, 6, 8, 10, 12\}$  and  $A = \{4, 8, 12\}$ , find  $A'$ .
- v. Write any one solution of equation  $x + 2y = 7$ .
- vi. If  $S_5 = 15$  and  $S_6 = 21$ , find  $t_6$ .

2. Attempt any *four* of the following subquestions:

[8]

- i. Find 'n' if the nth term of the following A.P. is 66: 3, 6, 9, 12, .....
- ii. If one of the roots of the quadratic equation  $x^2 - 7x + k = 0$  is 4, then find the value of  $k$ .
- iii. A box contains 20 cards marked with numbers 1 to 20. One card is drawn at random. Write the event  $A$  using the number on the card is multiple of 4. Write  $S$ ,  $n(S)$ ,  $A$  and  $n(A)$ .
- iv. Find the value of  $x - y$  if  $3x + 2y = 15$ ,  $2x + 3y = 10$ .
- v. Form the quadratic equation if its roots are 3 and -4.
- vi. For a certain frequency distribution, the values of mean and median are 72 and 78 respectively. Find the value of mode.

3. Attempt any *Three* of the following subquestions:

[9]

- i. For an A.P., find  $S_{10}$  if  $a = 6$  and  $d = 3$ .
- ii. Solve the following quadratic equation by using formula method:  $3q^2 - 2q = 8$ .
- iii. Solve the following simultaneous equations using Cramer's rule:  
 $4x + 3y = 18$ ;  $3x - 2y = 5$ .
- iv. A die is thrown, find the probability of the event of getting an odd number.
- v. The marks obtained by a student in an examination are given below. The total marks out of 100 obtained in various subjects are as follows:

Subject	Marks
Marathi	75
English	85
Science	100
Mathematics	100
Total	360

Represent the above data using pie diagram.

4. Attempt any *two* of the following subquestions:

[8]

- i. If  $\alpha + \beta = 5$  and  $\alpha^3 + \beta^3 = 35$ , find the quadratic equation whose roots are  $\alpha$  and  $\beta$ .
- ii. Two dice are thrown. Find the probability of getting:
  - (a) The sum of the numbers on their upper faces is at least 9.
  - (b) The sum of the numbers on their upper faces is 15.
  - (c) The number of the upper face of the second die is greater than the number on the upper face of the first die.

# Ssc Algebra Question Paper 201

**RC Schank**



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