



BOARD QUESTION PAPER : MARCH 2018

ALGEBRA

Time: 2 Hours

Total Marks: 40

Note:

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

Q.P. SET CODE

B

1. Attempt any *five* of the following sub-questions:

[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 $D_x = 25$, $D = 5$ 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 $x + 3y = 7$.
- vi. If $S_7 = 15$ and $S_8 = 21$, find t_8 .

2. Attempt any *four* of the following sub-questions:

[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 $3x + 3y = 15$, $2x + 3y = 10$.
- 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 sub-questions:

[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: $3q^2 - 3q = 8$.
- 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 sub-questions:

[8]

- i. If $\alpha + \beta = 5$ and $\alpha^2 + \beta^2 = 35$, find the quadratic equation whose roots are α and β .
- 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.

March 2physics Question Paper

Lei Huang



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