

This Question Paper contains 20 printed pages.

(Part - A & Part - B)

Sl.No. **0106505**

12 (E)

(MARCH, 2017)

પ્રશ્ન પેપરનો સેટ નંબર જોની સામેનું વર્તુળ OMR શીટમાં ઘટ્ટ કરવાનું રહે છે.

Set No. of Question Paper, circle against which is to be darkened in OMR sheet.

01

Part - A : Time : 1 Hour / Marks : 50

Part - B : Time : 2 Hours / Marks : 50

(Part - A)

Time : 1 Hour

[Maximum Marks : 50]

Instructions :

- 1) There are 50 objective type (M.C.Q) questions in Part - A and all questions are compulsory.
- 2) The questions are serially numbered from 1 to 50 and each carries 1 mark.
- 3) Read each question carefully, select proper alternative and answer in the O.M.R. sheet.
- 4) The OMR sheet is given for answering the questions. The answer of each question is represented by (A) O, (B) O, (C) O, (D) O. Darken the circle ● of the correct answer with ball-pen.
- 5) Rough work is to be done in the space provided for this purpose in the Test Booklet only.
- 6) Set No. of Question Paper printed on the upper-most right side of the Question Paper is to be written in the column provided in the OMR sheet.

Rough Work

- 1) The L.C.M. of the least prime number and the least composite number is _____.
(A) 1
(B) 2
(C) 3
(D) 4

2) $\sqrt{7 + \sqrt{40}} = \underline{\hspace{2cm}}$.

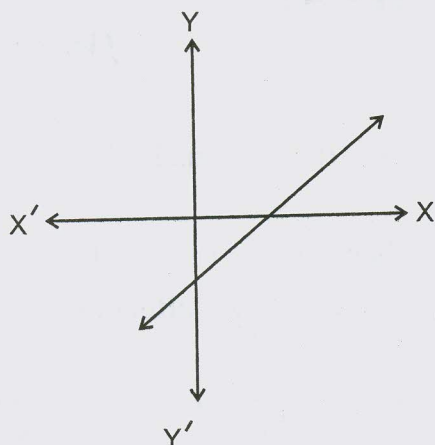
(A) $\sqrt{3} + 1$

(B) $\sqrt{3} + \sqrt{2}$

(C) $\sqrt{5} + \sqrt{2}$

(D) $\sqrt{3} - 1$

3) The number of zeros of $y = P(x)$ from the graph is $\underline{\hspace{2cm}}$.



(A) 0

(B) 1

(C) 2

(D) 3

4) Two zeros of $x^3 + x^2 - 5x - 5$ are $\sqrt{5}$ and $-\sqrt{5}$ then the third zero is $\underline{\hspace{2cm}}$.

(A) 1

(B) -1

(C) 2

(D) -2

5) If $P(-7) = 0$ then a factor of $P(x)$ is $\underline{\hspace{2cm}}$.

(A) $x - 7$

(B) $x + 1$

(C) $x + 7$

(D) $x - 1$

- 6) What are the zeros of $P(x) = 5 - x^2$?
- (A) $\sqrt{5}$ and $-\sqrt{5}$ (B) $\frac{1}{5}$ and $-\frac{1}{5}$
 (C) 5 and -5 (D) $\sqrt{5}$ and -5
- 7) The two digit number having the unit digit $x+5$ and ten's digit $x-5$ is _____.
- (A) $2x + 10$ (B) $11x - 45$
 (C) $9x - 55$ (D) $11x + 55$
- 8) If $\frac{x}{3} = \frac{16}{y} = 4$ then $x + y =$ _____.
- (A) 10 (B) 16
 (C) 18 (D) 19
- 9) If the sum of two integers is 12 and their difference is 4 then the greater number is _____.
- (A) 9 (B) 6
 (C) 8 (D) 7
- 10) The age of Sachin before y years was x years then his age after 4 years will be _____ years.
- (A) $x - y + 4$ (B) $x - y - 4$
 (C) $y - x + 4$ (D) $x + y + 4$

