

This Question Paper contains 20 printed pages.

(Part - A & Part - B)

Sl.No.

12 (E)

(MARCH, 2018)

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

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

01

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

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

(Part - A)

Time : 1 Hour]

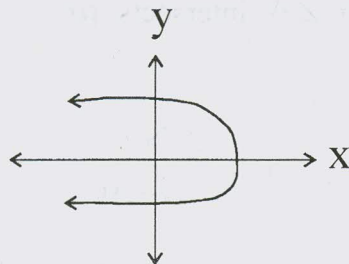
[Maximum Marks : 50

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) For the graph, in the figure, $y = P(x)$ has _____ zero/zeros.



(A) 3

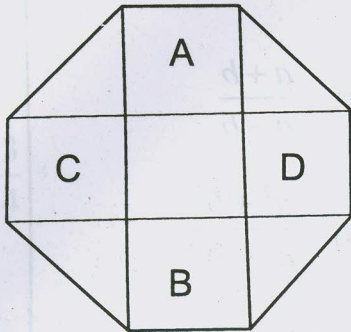
(B) 1

(C) 2

(D) 4

- 2) Discriminant is _____ for the equation $5x - 6 = -\frac{1}{x}$
- (A) -56 (B) 16
(C) -16 (D) 0
- 3) The terminating decimal expansion of the number $\frac{337}{125}$ is _____.
- (A) 2.666 (B) 2.966
(C) 2.696 (D) 2.698
- 4) For A.P., $S_n - 2S_{n-1} + S_{n-2} =$ _____.
- (A) $2d$ (B) a
(C) d (D) $a + d$
- 5) If the roots of the quadratic equation $6x^2 - 13x + m = 0$ are reciprocal numbers of each other then $m =$ _____.
- (A) -13 (B) 13
(C) -6 (D) 6
- 6) In $\triangle ABC$, \vec{AD} the bisector of $\angle A$ intersects \overline{BC} in D.
 $\therefore BD =$ _____.
- (A) $\frac{BC \times AB}{AB + AC}$ (B) $\frac{BC \times AB}{AB - AC}$
(C) $\frac{BC \times AB}{AC - AB}$ (D) $\frac{AB + AC}{BC \times AB}$

- 7) In the following figure, all the vertically opposite angles formed, are right angles. The Perimeter of the coplanar figure is _____.



Symbol	Shape	Area
A and B	Square	9 cm^2
C and D	Square	16 cm^2

- (A) 34 cm (B) 26 cm
 (C) 40 cm (D) 25 cm
- 8) $A(0, 0)$, $B(3, 0)$, $C(3, 4)$ are the vertices of _____ triangle .
 (A) right angled (B) equilateral
 (C) acute angled (D) isosceles
- 9) Point P, on line segment joining the points $A(1, 2)$ and $B(3, -2)$, divides in the ratio 1:1, the coordinates of P are _____.
 (A) (2, 1) (B) (-1, 0)
 (C) (2, 0) (D) (0, 0)
- 10) If $\tan 5\theta \cdot \tan 4\theta = 1$ then $\theta =$ _____.
 (θ is an acute angle).
 (A) 7 (B) 3
 (C) 10 (D) 9

