

MODEL TEST PAPER
FIRST TERM (SA-I)
MATHEMATICS
(With Answers)
CLASS X

Time Allowed : 3 to 3½ Hours

[Maximum Marks : 80]

General Instructions :

- (i) All questions are compulsory.
- (ii) The question paper consists of 34 questions divided into four sections A, B, C and D. Section A comprises of 10 questions of 1 mark each, Section B comprises of 8 questions of 2 marks each, Section C comprises of 10 questions of 3 marks each and Section D comprises of 6 questions of 4 marks each.
- (iii) Question numbers 1 to 10 in Section A are multiple choice questions where you are to select one correct option out of the given four.
- (iv) There is no overall choice. However, internal choice has been provided in 1 question of two marks, 3 questions of three marks each and 2 questions of four marks each. You have to attempt only one of the alternatives in all such questions.
- (v) Use of calculators is not permitted.

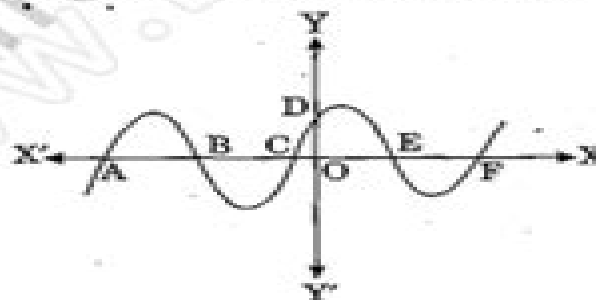
Section 'A'

Question numbers 1 to 10 are of one mark each.

1. The decimal expansion of $\frac{147}{120}$ will terminate after how many places of decimal ?

- (a) 1 (b) 2
(c) 4 (d) 3

2. In figure, the graph of a polynomial $p(x)$ is shown. The number of zeroes of $p(x)$ is



- (a) 2 (b) 3
(c) 4 (d) 5

3. If θ and $(2\theta - 45^\circ)$ are acute angles such that $\sin \theta = \cos (2\theta - 45^\circ)$, then $\tan \theta$ is equal to

- (a) 0 (b) 1
(c) $\frac{1}{\sqrt{3}}$ (d) $\sqrt{3}$

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