# MODEL TEST PAPER

# FIRST TERM (SA-I) MATHEMATICS

(With Answers)

#### CLASS X

## Time Allowed: 3 to 31/2 Hours]

Maximum Marks: 80

#### General Instructions:

- 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 I to I0 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

(6) 3

(c) 4

- (d) 5
- 3. If  $\theta$  and  $(2\theta 45^{\circ})$  are acute angles such that  $\sin \theta = \cos (2\theta 45^{\circ})$ , then  $\tan \theta$  is equal to
- $(\alpha)$  0

(b) I

(c)  $\frac{1}{\sqrt{3}}$ 

(d) √3

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**JR Anderson** 

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