

MATHEMATICS

Paper & Solution

Series: HRL

Time: 3 Hrs.

Code: 30/1

Max. Marks: 80

General Instructions :

- (i) All questions are compulsory.
- (ii) The question paper consists of 30 questions divided into four sections — A, B, C and D. Section A comprises of ten questions of 1 mark each, Section B comprises of five questions of 2 marks each, Section C comprises of ten questions of 3 marks each and Section D comprises of five questions of 6 marks each
- (iii) All questions in Section A are to be answered in one word, one sentence or as per the exact requirement of the question.
- (iv) There is no overall choke. However, an internal choice has been provided in one question of 2 marks each, three questions of 3 marks each and two questions of 6 marks each. You have to attempt only one of the alternatives in all such questions.
- (v) In question on construction, the drawings should be neat and exactly as per the given measurement.
- (vi) Use of calculators is not permitted.

SECTION – A

Questions number 1 to 10 carry 1 mark each.

1. Find the [HCF \times LCM] for the numbers 100 and 190.**Solution:**

Given two numbers 100 and 190

Product of 100 and 190

$$\therefore \text{HCF} \times \text{LCM} = 100 \times 190 \\ = 19000$$

2. If 1 is a zero of the polynomial $p(x) = ax^2 - 3(a-1)x - 1$, then find the value of a .**Solution:**If $x = 1$ is the zero of the polynomial $p(x) = ax^2 - 3(a-1)x - 1$ Then $p(1) = 0$

$$\therefore a(1)^2 - 3(a-1) - 1 = 0$$

$$-2a + 2 = 0$$

$$a = 1$$

3. In ΔLMN , $\angle L = 50^\circ$ and $\angle N = 60^\circ$. If $\Delta LMN \sim \Delta PQR$, then find $\angle Q$.**Solution:**

Maths Paper 2009

Chao Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located on the right side of the light blue bar.

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