

MATHEMATICS

Paper & Solution

Time: 3 Hrs.

Max. Marks: 90

General Instructions:

(i) All questions are compulsory.

(ii) The question paper consists of 31 questions divided into four sections – A, B, C and D.

(iii) Section A contains 4 questions of 1 mark each. Section B contains 6 questions of 2 marks each, Section C contains 10 questions of 3 marks each and Section D contains 11 questions of 4 marks each.

(iv) Use of calculators is not permitted.

SECTION – A

Question numbers 1 to 4 carry 1 mark each.

1. If the quadratic equation $px^2 - 2\sqrt{5}px + 15 = 0$ has two equal roots then find the value of p .**Solution:**

Given quadratic equation is,

$$px^2 - 2\sqrt{5}px + 15 = 0$$

Here, $a = p$, $b = 2\sqrt{5}p$, $c = 15$ For real equal roots, discriminant $= 0$

$$\therefore b^2 - 4ac = 0$$

$$\therefore (2\sqrt{5}p)^2 - 4p(15) = 0$$

$$\therefore 20p^2 - 60p = 0$$

$$\therefore 20p(p - 3) = 0$$

$$\therefore p = 3 \text{ or } p = 0$$

But, $p = 0$ is not possible.

$$\therefore p = 3$$

2. In the following figure, a tower AB is 20 m high and BC, its shadow on the ground, is $20\sqrt{3}$ m long. Find the Sun's altitude.

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JR Anderson



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