MATHEMATICS

Paper & Solution

Time: 3 Hrs.

Maox. 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 $px^2 - 2\sqrt{5px} + 15 = 0$ has two equal roots then find the value of p.

Solution:

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

Here,
$$a = p$$
, $b = 2\sqrt{5}p$, $c = 15$

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

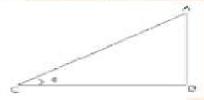
$$(2\sqrt{5}p)^2 - 4p(15) = 0$$

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

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

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

2. In the following figure, a tower AB is 20 m high and 8C, its shadow on the ground, is $20\sqrt{3}$ m long. Find the Sun's altitude.



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