

MATHEMATICS

Paper & Solution

Code: 65/1

Max. Marks: 100

Time: 3 Hrs.

General Instructions:

- (i) All questions are compulsory.
 (ii) The question paper consists of 29 questions divided into three sections A, B and C. Section A comprises of 10 questions of one mark each, Section B comprises of 12 questions of four marks each and Section C comprises of 7 questions of six 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 choice. However, internal choice has been provided in 4 questions of four marks each and 2 questions of six marks each. You have to attempt only one of the alternatives in all such questions.
 (v) Use of calculators is **not** permitted. You may ask for logarithmic tables, if required.

SECTION A**Question numbers 1 to 10 carry 1 mark each.**

1. If $R = \{(x, y) : x + 2y = 8\}$ is a relation on N , write the range of R .

Solution:

$R = \{(x, y) : x + 2y = 8\}$ is a relation on N

Then we can say $2y = 8 - x$

$$y = 4 - \frac{x}{2}$$

so we can put the value of x , $x = 2, 4, 6$ only

we get $y = 3$ at $x = 2$

we get $y = 2$ at $x = 4$

we get $y = 1$ at $x = 6$

so range = $\{1, 2, 3\}$ Ans.

2. If $\tan^{-1} x + \tan^{-1} y = \frac{\pi}{4}$, $xy < 1$, then write the value of $x + y + xy$.

Solution:

$$\tan^{-1} x + \tan^{-1} y = \frac{\pi}{4}$$

$$\Rightarrow \tan^{-1} \frac{x+y}{1-xy} = \frac{\pi}{4}$$

$$\Rightarrow \frac{x+y}{1-xy} = \tan \frac{\pi}{4}$$

$$\Rightarrow \frac{x+y}{1-xy} = 1 \text{ or, } x+y = 1-xy$$

or, $x + y + xy = 1$ Ans.

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Daniel F McAuley



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