## **PROBABILITY**

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16.3.18  $^1$  In class XI of a school 40% of the students study Mathematics and 39% study Biology.10% of the class study both Mathematics and Biology. If a student is selected at random from the class, find the probability that he will be studying Mathematics or Biology

## Solution:

Percentage	Subject	Probability
40	Mathematics	P(M)=0.4
30	Biology	P(B)=0.3
10	Both	P(MB)=0.10

Table 2:

$$Pr(M+B) = Pr(M) + Pr(B) - Pr(MB)$$
(16.3.18.1)

$$Pr(M+B) = 0.4 + 0.3 - 0.10 (16.3.18.2)$$

$$Pr(M+B) = 0.6 (16.3.18.3)$$

<sup>&</sup>lt;sup>1</sup>Read question numbers as (CHAPTER NUMBER).(EXERCISE NUMBER).(QUESTION NUMBER)