## Question:

| Educational Qualification | Score |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: | :---: | :---: | :---: |
|  | Below 50 |  | Between 50 and 60 | Above 60 | Total |  |  |  |  |
| Diploma | 90 | 20 | 10 | 120 |  |  |  |  |  |
| Degree | 30 | 70 | 30 | 130 |  |  |  |  |  |
| I.T | 60 | 70 | 20 | 150 |  |  |  |  |  |
| Total | 180 | 160 | 60 | 400 |  |  |  |  |  |

If an examinee is selected at random from this group, find:
1.1.1 The probability that he is a Diploma graduate. (3)
1.1.2 The probability that he is a Degree graduate, given that his scores are above 60. (3)
1.1.3 The probability that his score is below 50, given that he's doing IT. (3)

## Solution:

1.1.1 The probability that he is a Diploma graduate is $P=\frac{120}{400}=0.3$.
1.1.2 The probability that he is a Degree graduate, given that his scores are above 60 is $P=\frac{30}{400}=$ $\frac{3}{40}=0.075$.
1.1.3 The probability that his score is below 50, given that he's doing IT is $P=\frac{60}{400}=\frac{3}{200}=0.15$.

Answer.
1.1.1 $P=0.3$;
1.1.2 $P=0.075$;
1.1.3 $P=0.15$.

