

3.

A student got 40% marks and fail by 20 marks another student got 60% marks, he got 10 more than his pass marks.

- i) What is the full marks?
- ii) " " " pass marks?

$$\text{Full marks} = \frac{\text{shortage marks} + \text{Excess marks}}{\text{difference of \%}} \times 100$$

$$= \frac{20 + 10}{20(60 - 40)} \times 100$$

$$= \frac{30}{20} \times 100 = 150$$

$$\therefore \text{Pass marks} = \left(150 \times \frac{40}{100} \right) + 20$$

$$= 60 + 20 = 80$$