

## SOLUTIONS to 4(a)

$$(i) P(X \leq 1) = P(X=0) + P(X=1)$$

$$= 0.1 + 0.2$$

$$= \underline{0.3} \rightarrow$$

$$(ii) P(X > 3) = P(X=4)$$

$$= 0.1$$

$$(iii) P(X \leq 2) = P(X=0) + P(X=1) + P(X=2)$$

$$= 0.1 + 0.2 + 0.3$$

$$= 0.6$$

OR

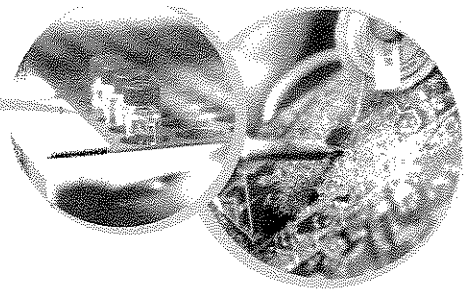
$$= 1 - P(X \geq 3)$$

$$= 1 - (P(X=3) + P(X=4))$$

$$= 1 - (0.3 + 0.1)$$

$$= 1 - 0.4$$

$$= \underline{0.6} \rightarrow$$



SOLUTIONS TO 4(a)

$$(iv) P(X=2) = 0.3 \rightarrow$$

$$(v) P(X \geq 1) = 1 - P(X=0) \\ = 1 - 0.1 \\ = 0.9 \rightarrow$$

~~Result~~

End of solution.