

(Lecture 11) Practice Questions:-

$$\text{Question:- } x \cdot (\overline{y}z) + x'y'$$

$$= x \cdot y'z' + x'y'$$

$$= y'(x \cdot z' + x')$$

$$\text{Question:- } \overline{x \cdot y} + x' + y'$$

$$= \overline{x} + \overline{y} + x' + y'$$

$$= \overline{x} + \overline{y}$$

Question:-

$$\overline{x \cdot y} + \overline{x + y}$$

$$= \overline{x} + \overline{y} + x' + y'$$

$$= \overline{x} + \overline{y} (1 + \overline{x})$$

$$= \overline{x} + \overline{y} \cdot 1 = \boxed{\overline{x} + \overline{y}}$$