

$$(c) DUF = \{1, 3, 5, 7, 9\} \cup \{1, 5, 9\}$$

$$DUF = \{1, 3, 5, 7, 9\}$$

$$DNF = \{1, 5, 9\}$$

Answer no: 5

$$(a) A^c, B^c, D^c, E^c$$

We know, Natural number,

$$U = \{1, 2, 3, \dots, 9\}$$

$$A = \{1, 2, 3, 4, 5\}$$

$$A^c = U - A = \{1, 2, 3, \dots, 9\} - \{1, 2, 3, 4, 5\}$$

$$\therefore A^c = \{6, 7, 8, 9\}$$

$$B^c = \{1, 2, 3, \dots, 9\} - \{4, 5, 6, 7\}$$

$$= \{1, 2, 3, 8, 9\}$$

$$D^c = \{1, 2, 3, \dots, 9\} - \{1, 3, 5, 7, 9\}$$

$$= \{2, 4, 6, 8\}$$

$$E^c = \{1, 2, 3, \dots, 9\} - \{2, 4, 6, 8\}$$

$$= \{1, 3, 5, 7, 9\}$$