

Q.4.

$$1. \overline{RSSI} = -10 (4) \log(d) + (-50)$$

$$= -10 (4) \log(0)$$

$$\overline{RSSI}_1 = -50$$

for  $d = 70$ .

$$\overline{RSSI}_{70} = -10 (4) \log(70) - 50$$

$$= -10 (4) \log(70) - 50$$

$$= -40 (1.845) - 50$$

$$= -123.8 \text{ dBm}$$

$$\overline{RSSI}_{140} = -10 (4) \log(140) - 50$$

$$= -10 (4) (2.146) - 50$$

$$= -10 (8.584) - 50$$

$$= -135.84 \text{ dBm}$$