NEET 220 Medical Seats out of 240



PHYSICS

41. (4)

Current,
$$\frac{I_n}{I_n} = \frac{\mu_e}{\mu_h} \mu_e > \mu_h$$

$$I_n > I_p$$

therefore current in n-type > current in p-type

42. (4)

A zener diode is connected in reverse biased when used as voltage regulator as in reverse biased after breakdown, voltage becomes constant

43. (3)

The given circuit is a circuit of full wave rectifier.

44. (2)

45. (2)

Majority carries in an n-type semiconductor are electrons.

46. (2)

47. (2)

By Newton's formula,

$$\mathbf{x}_1 \mathbf{x}_2 = \mathbf{f}^2 \Rightarrow \sqrt{\mathbf{x}_1 \mathbf{x}_2}$$

48. (3)

49. (3)

Here
$$m = -\frac{v}{u} = 4 \Rightarrow v = -4u$$

By mirror formula, $\frac{1}{-4u} + \frac{1}{u} = \frac{1}{f}$

$$\Rightarrow$$
 f = $\frac{4}{3}$ u but u = -0.6s of = -0.8 cm

$$\Rightarrow$$
 R = 1.6 cm (concave)

50. (3)



PARISHRAMA NEET ACADEMY