

**VIDYA BHAVAN, BALIKA VIDYAPEETH**  
**SHAKTI UTTHAN ASHRAM, LAKHISARAI, PIN:-811311**

**SUBJECT:- PHYSICS**

**CLASS:- XTH**

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**SUBJECT TEACHER:- MR. NEEL NIRANJAN**

**CHAPTER 1. (ELECTRICITY REVISION) (BASED ON NCERT PATTERN)**

1. Two resistors are connected in series gives an equivalent resistance of  $10 \Omega$ . When connected in parallel, gives  $2.4 \Omega$ . Then the individual resistance are
  - (a) each of  $5 \Omega$
  - (b)  $6 \Omega$  and  $4 \Omega$
  - (c)  $7 \Omega$  and  $4 \Omega$
  - (d)  $8 \Omega$  and  $2 \Omega$
  
2. If  $R_1$  and  $R_2$  be the resistance of the filament of  $40 \text{ W}$  and  $60 \text{ W}$  respectively operating  $220 \text{ V}$ , then
  - (a)  $R_1 < R_2$
  - (b)  $R_2 < R_1$
  - (c)  $R_1 = R_2$
  - (d)  $R_1 \geq R_2$
  
3. The resistance of hot filament of the bulb is about 10 times the cold resistance. What will be the resistance of  $100 \text{ W}$ - $220 \text{ V}$  lamp, when not in use?
  - (a)  $48 \Omega$
  - (b)  $400 \Omega$
  - (c)  $484 \Omega$
  - (d)  $48.4 \Omega$
  
4. A fuse wire repeatedly gets burnt when used with a good heater. It is advised to use a fuse wire of
  - (a) more length
  - (b) less radius
  - (c) less length
  - (d) more radius