

BACHELOR IN PROSTHETICS AND ORTHOTICS
FIRST YEAR
PAPER VI – BASIC ELECTRONICS

Q.P. Code: 802456

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Elaborate on:

(3 x 10 = 30)

1. Transformer and its types.
2. Single Phase and Three Phase Supply System.
3. Myo-electrodes and its application in the field of P and O.

II. Write notes on:

(8 x 5 = 40)

1. Voltage, Current, Resistance, Charge and Power.
2. Calculate the total resistance for the 4 resistors value of 10 ohms each are connected in parallel.
3. A transformer has 200 turns of the secondary winding and 10 turns of the Primary winding. Find out the secondary voltage for the given primary voltage 150 V.
4. Energy Band diagram of Semiconductor.
5. Voltage Gain and Current Gain in Amplifier.
6. Negative feedback and Positive feedback
7. Fuse.
8. Muscle Action Potential.

III. Short answers on:

(10 x 3 = 30)

1. Ohm's Law.
2. Sine Wave.
3. Frequency.
4. Voltage Ratio in Transformer.
5. Intrinsic Semiconductor.
6. Insulators.
7. Transducer.
8. Microprocessor.
9. Surface Electrodes.
10. Myo-electricity.