

[LB 6254]

AUGUST 2012

Sub. Code: 6254

**FIRST YEAR BPT EXAM**

**PAPER IV – BASIC AND APPLIED PHYSICS FOR PHYSIOTHERAPY**

*Q.P. Code : 746254*

**Time: Three Hours**

**Maximum: 100 marks**

**(180 Min) Answer ALL questions in the same order.**

**I. Elaborate on:**

**Pages Time Marks**  
**(Max.)(Max.)(Max.)**

- |   |    |    |    |
|---|----|----|----|
| 1. Describe the axes and planes in relation to movements in human body with examples.   | 19 | 33 | 20 |
| 2. Define thermionic valves and thermionic emission: List the types of valves and construction and application of cathode ray oscilloscope. | 19 | 33 | 20 |

**II. Write notes on:**

- |                                       |   |   |   |
|---------------------------------------|---|---|---|
| 1. DC Currents.                       | 3 | 8 | 5 |
| 2. Newton's Laws.                     | 3 | 8 | 5 |
| 3. Cosine law and its implications.   | 3 | 8 | 5 |
| 4. Properties of Magnet.              | 3 | 8 | 5 |
| 5. Medium frequency Currents.         | 3 | 8 | 5 |
| 6. Define Springs and its properties. | 3 | 8 | 5 |
| 7. Wheat stone bridge.                | 3 | 8 | 5 |
| 8. Ammeter.                           | 3 | 8 | 5 |

**III. Short Answers on:**

- |                                     |   |   |   |
|-------------------------------------|---|---|---|
| 1. Define force and its components. | 1 | 5 | 2 |
| 2. Define choke coil.               | 1 | 5 | 2 |
| 3. Fixation and stabilization       | 1 | 5 | 2 |
| 4. S-D Curve                        | 1 | 5 | 2 |
| 5. Speed                            | 1 | 5 | 2 |
| 6. Momentum                         | 1 | 5 | 2 |
| 7. Electrical field.                | 1 | 5 | 2 |
| 8. Static equilibrium.              | 1 | 5 | 2 |
| 9. Voltmeter.                       | 1 | 5 | 2 |
| 10. Electromagnetic spectrum        | 1 | 5 | 2 |

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