

**M.B.B.S. [1<sup>st</sup> Prof.]**  
**BF/2007/11**

**Physiology - A**

**M.M. : 50**

**Time : 3 Hours**

*Note : Attempt all questions.*

1. Describe role of Hypothalamus in regulation of body temperature. Add note to its abnormalities. [10]
2. **Write notes on:**
  - a. Physiological basis of sign and symptoms of Diabetes Mellitus. [4]
  - b. Stress hormones. [4]
3. **Explain briefly:**
  - a. Chronaxie and its significance. [4]
  - b. Oxygen debt. [4]
4. **Draw well-labelled diagrams of:**
  - a. Pain pathway. [4]
  - b. Structure of neuromuscular junction. [4]
5. **Describe briefly:**
  - a. Oral contraceptive pills. [4]
  - b. Composition of Semen. [4]
6. **Write notes on:**
  - a. Active transport. [2]
  - b. Glaucoma. [2]
  - c. Taste buds. [2]
  - d. Tympanic reflex. [2]