

Roll No. ....

Total Pages : 03

**LMDQ/D-23**

**6557**

HUMAN PHYSIOLOGY

FND-306

Time : Three Hours]

[Maximum Marks : 80

**Note :** Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory.

**(Compulsory Question)**

1. Discuss the following : **4×4=16**

- (a) Define and differentiate innate and adaptive immunity
- (b) Asthma
- (c) Relationship between hearing and equilibrium
- (d) Define and differentiate cranial and spinal nerves.

**Unit I**

2. (a) Describe in detail the mechanism of regulation of heart rate.
- (b) How are WBCs activated and antibodies produced ?  
Write in detail. **8×2=16**

3. (a) Explain histocompatibility and blood indices in detail.
- (b) Discuss in detail the mechanism of absorption of fats. **8×2=16**

### Unit II

4. (a) Explain breast and cervical cancer describing causes, risk factors along with preventive measures in detail.
- (b) Enlist the functions of connective tissues. **12+4**
5. (a) What do you mean by disorders of the skeletal system ? Describe in detail.
- (b) Comment on laryngitis. **10+6**

### Unit III

6. Elaborate in detail the role of kidney in water and electrolyte balance. **16**
7. Explain the following in detail : **8×2=16**
  - (a) Gestation
  - (b) Structure and function of olfaction.

### Unit IV

8. Elaborate the structure, functions and different syndromes resulting from hypo and hyperactivity of adrenal cortex in detail. **16**
9. Describe the following : **10+3+3**
  - (a) Autonomic nervous system.
  - (b) Sciatica
  - (c) EEC.