

01032

**MASTER OF SCIENCE IN DIETETICS AND
FOOD SERVICE MANAGEMENT**

Term-End Examination

June, 2010

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

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- Note :** (i) *Attempt any five questions in all.*
(ii) *Question no. 1 is compulsory.*
(iii) *All questions carry equal marks.*
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1. (a) Give one example of each of the following : 10
- (i) Enzymes of Gastric Juice
 - (ii) Connective Tissue
 - (iii) Types of White Blood Cells
 - (iv) Types of Antibodies
 - (v) Cranial Nerves
 - (vi) Unicellular Organisms
 - (vii) Organs of Immune System
 - (viii) Renal Function Tests
 - (ix) Disorders of Image Formation
 - (x) Organs of Female Reproductive System

- (b) Define the following : 10
- (i) Ageing
 - (ii) Aplastic Anaemia
 - (iii) Antigen
 - (iv) Peristalsis
 - (v) Hormones
2. (a) Explain the structure of Pancreas with the help of suitable diagram. 8+6+6
- (b) Explain the various functions of Pancreas and highlight the mechanism of Pancreatic secretion.
3. Give the structure of a Nephron and explain the process of urine formation. 8+12
4. (a) What do you understand by the term 'Cardiac Cycle' ? 8+12
- (b) Describe the various phases of Cardiac Cycle.
5. (a) How active transport system is different from passive transport system across a cell membrane ? 8+12
- (b) Describe in brief the two types of active transport system.

6. (a) Describe the structure of the eye with the help of a suitable diagram. **8+4+8**
- (b) Write the properties of rods and cones.
- (c) Describe in brief the disorders of image formation and their correction.
7. (a) Describe the composition and functions of bile juice. **6+6+8**
- (b) Explain the process of digestion of proteins in the body.
- (c) Discuss in brief the various movements of the Gastrointestinal Tract (G.I.T.) ?
8. Write short notes on *any four* of the following : **5+5+5+5**
- (a) Contraception
- (b) Menopause
- (c) Male external genitalia
- (d) Thymus Gland
- (e) Tetany
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