

00370

**MASTER OF SCIENCE (DIETETICS AND
FOOD SERVICE MANAGEMENT)**

Term-End Examination

June, 2016

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

- Note : (i) Attempt any five questions.
(ii) Question No. 1 is compulsory.
(iii) All questions carry equal marks.*

1. (a) Give one example for each of the following :
- (i) Short bones 1x10=10
 - (ii) Blood cells
 - (iii) Male reproductive organs
 - (iv) Enzymes of the Gastric Juice
 - (v) Liver functions tests
 - (vi) Parts of large intestine
 - (vii) Hinge Joint
 - (viii) Modern methods of female contraception
 - (ix) Signs of vitamin A deficiency
 - (x) Types of Anaemia
- (b) Explain the following terms in 2-3 sentences each : 2x5=10
- (i) Antigen
 - (ii) Enzymes
 - (iii) Anaemia
 - (iv) Inflammation
 - (v) Leukocytosis

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| 2. | (a) | Describe the composition and functions of the bile juice. | 8 |
| | (b) | Explain the process of digestion of proteins in the body. | 12 |
| 3. | (a) | With the help of suitable examples, differentiate between active and passive mechanism of transport across the cell membrane. | 10 |
| | (b) | Describe in brief the renal function tests used to evaluate the renal function in a patient. | 10 |
| 4. | (a) | Draw a labelled diagram of the eye. | 6 |
| | (b) | Describe the various disorders of image formation by the eye. | 14 |
| 5. | (a) | Draw a labelled diagram of female reproductive system. | 8 |
| | (b) | Describe in brief the disorders affecting the reproductive function. | 12 |
| 6. | (a) | What is anaemia ? | 3 |
| | (b) | How would you classify anaemias ? | 7 |
| | (c) | Describe the various causes of anaemia and their prevention. | 10 |
| 7. | (a) | Enlist the various endocrine glands present in human body. | 5 |
| | (b) | Describe in detail the structure and functions of thyroid gland. | 15 |
| 8. | | Write short notes on any four of the following : | |
| | (a) | Structure and functions of Mid Brain | 5+5+5+5 |
| | (b) | Structure and functions of Liver | |
| | (c) | Composition and functions of the Saliva | |
| | (d) | Factors affecting Hypertension | |
| | (e) | White Blood Cells (Leukocytes) | |