

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

Term-End Examination

December, 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 : 1x10=10
- (i) White Blood Cells
 - (ii) Flat bones
 - (iii) Epithelial Tissue
 - (iv) Enzymes in Pancreatic Juice
 - (v) Abnormal Constituents of the urine
 - (vi) Female Reproductive Organs
 - (vii) Connective Tissue
 - (viii) Parts of small intestine
 - (ix) Disorders of image formation by the eye
 - (x) Renal Function Tests
- (b) Explain the following terms in 2-3 sentences each : 2x5=10
- (i) Hormones
 - (ii) Night Blindness
 - (iii) Leucopenia
 - (iv) Synapse
 - (v) T Cells

- | | | |
|----|--|--------|
| 2. | Describe the structure and functions of the Central Nervous System (CNS). | 20 |
| 3. | (a) Describe in brief the various functions of the blood. | 10 |
| | (b) Discuss the various factors affecting the Blood Pressure (BP). | 10 |
| 4. | (a) With the help of suitable diagram describe the structure of respiratory system. | 8 |
| | (b) Discuss the chemical control of respiration. | 6 |
| | (c) How will you provide artificial respiration ? | 6 |
| 5. | (a) Describe the structure of excretory system with the help of suitable diagram. | 8 |
| | (b) How does the kidneys maintain pH balance ? | 6 |
| | (c) Discuss in brief the renal function tests. | 6 |
| 6. | (a) Enumerate the cranial nerves. | 6 |
| | (b) Discuss the effect of sympathetic and parasympathetic stimulations on the body system. | 14 |
| 7. | (a) What do you understand by the term 'ageing' ? | 4 |
| | (b) Describe the various theories of ageing. | 6 |
| | (c) Explain the age related changes seen in different systems of the body. | 10 |
| 8. | Write short notes on any four of the following : | |
| | (a) Methods of contraception in females. | 5x4=20 |
| | (b) Refractive Errors. | |
| | (c) Prevention of Anaemia in pregnant women. | |
| | (d) Types of White Blood Cells (WBCs). | |
| | (e) Physiology of Lactation. | |
-