

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

01101

Term-End Examination

June, 2018

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

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- Note :** (i) *Attempt 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 for each of the following : **1x10=10**
- (i) White Blood Cells
 - (ii) Female Reproductive Organ
 - (iii) Short Bones
 - (iv) Endocrine Glands
 - (v) Kidney Functions Test (KFT)
 - (vi) Hinge Joint
 - (vii) Sign of Vitamin C deficiency
 - (viii) Types of Anaemia
 - (ix) Parts of Mid Brain
 - (x) Sign of Inflammation
- (b) Explain the following terms in 2-3 sentences each : **2x5=10**
- (i) Polycythemia
 - (ii) Osmosis
 - (iii) Inflammation
 - (iv) Antibodies
 - (v) Atherosclerosis

2. (a) Describe the composition and functions of Gastric Juice. **10+10**
(b) Explain the process of digestion in the stomach.
3. (a) Draw a labelled diagram of ear. **10+10**
(b) Explain the process of hearing.
4. Describe the structure and functions of Mid Brain **20** with the help of suitable diagrams.
5. (a) What is 'Hypertension' ? **3+7+10**
(b) How would you classify Hypertension ?
(c) Describe the various causes of hypertension and its prevention .
6. (a) What is erythropoiesis ? **2+8+10**
(b) Describe the process of erythropoiesis.
(c) Discuss various factors that regulate the process of erythropoiesis.
7. (a) Explain the mechanics of respiration. **10+10**
(b) Describe the interchange of gases within the lungs that takes place during respiration.
8. Write short notes on any four of the following :
(a) Cranial Nerves **5+5+5+5**
(b) Theories of ageing
(c) Haemostasis
(d) Grave's Diseases
(e) Disorders of image formation by the human eye
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