

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

Term-End Examination

June, 2017

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

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

1. (a) Give one example of each of the following :
- (i) Types of immunity. 1x10=10
 - (ii) Hormones secreted by Pituitary Gland.
 - (iii) Cranial Nerves.
 - (iv) Blood Cells.
 - (v) Types of Deafness.
 - (vi) Ventricles of Brain.
 - (vii) Types of Malnutrition.
 - (viii) Liver Function Tests.
 - (ix) Disorders of platelets.
 - (x) Retinal Nerve Cells.
- (b) Explain the following terms in 2-3 sentences each :
- 2x5=10
- (i) Facilitated Diffusion.
 - (ii) Hypoxia.
 - (iii) Bundle of HIS.
 - (iv) Pyloric orifice.
 - (v) Homeostasis.

2. (a) Draw a labelled diagram of digestive system.
(b) Describe the process of digestion of food in the small intestine. 10+10
3. (a) What are the various processes of transport through cell membrane ? 5+15
(b) Discuss the passive transport mechanism in detail.
4. Explain the following in brief : 10+10
(a) Haemodialysis
(b) Renal Function Tests
5. (a) Describe the structure of eye ball with the help of diagrams. 12+8
(b) Compare the properties of rods and cones.
6. (a) What is Blood Pressure ? 4+6+10
(b) Explain the various factors affecting the Blood Pressure.
(c) Discuss in detail the various B.P. regulatory mechanisms.
7. (a) Describe in brief the female reproductive organs. 5+5+10
(b) What are the various functions of the uterus ?
(c) Explain the process of menstrual cycle.
8. Write short notes on **any four** of the following :
(a) Types of Immunity. 5+5+5+5
(b) Contraception.
(c) Errors of refraction.
(d) Blood Cells.
(e) Disorders of Thyroid Gland.
(f) Types of Connective Tissue.