

**MASTER OF SCIENCE (DIETETICS AND
FOOD SERVICE MANAGEMENT) (M.Sc. DFSM)**

Term-End Examination

June, 2021

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

Note :

1. Question no. 1 is **compulsory**.
2. Answer **five** questions in all.
3. All questions carry equal marks.

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1. (a) Give one example for each of the following : 10
- (i) Leukocytes
 - (ii) Layers of eyeball
 - (iii) Types of antibodies
 - (iv) Granulocyte
 - (v) Types of joints
 - (vi) Vitamins necessary for night vision
 - (vii) Parts of mid brain
 - (viii) Non-specific defense mechanisms
 - (ix) Hormones produced by adrenal cortex
 - (x) Exocrine glands

- (b) Briefly explain the following terms : 10
- (i) Presbyopia
 - (ii) Universal Blood Donor
 - (iii) NK Cells
 - (iv) Smooth Muscle
 - (v) Chloride Shift
- 2.** (a) Describe the structure of the stomach with the help of suitable diagram.
- (b) Describe the process of digestion in the stomach. 10+10
- 3.** (a) Draw a labelled diagram of the female reproductive system.
- (b) Explain the process of fertilization. 10+10
- 4.** (a) Enlist various endocrine glands present in the human body.
- (b) Draw a labelled diagram of thyroid gland.
- (c) Describe various disorders caused by hyposecretion and hypersecretion of thyroid hormones. 4+6+10
- 5.** (a) Describe the factors affecting the cardiac output.
- (b) Discuss the common causes of secondary hypertension. 10+10

6. (a) Enlist the cranial nerves present in the human body.
- (b) Describe the effects of sympathetic and parasympathetic stimulation on the body. *5+15*
7. (a) Explain the difference between active and passive transport systems.
- (b) Describe the process of molecules transportation across the cell membrane. *10+10*
8. Write short notes on any ***four*** of the following : *5+5+5+5*
- (a) Types of Anaemia
- (b) Blood Groups
- (c) Refractive Errors
- (d) Liver Function Tests
- (e) Health Problems of Elderly
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