

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

**Term-End Examination  
June, 2022**

**MFN-001 : APPLIED PHYSIOLOGY**

*Time : 3 hours*

*Maximum Marks : 100*

**Note :**

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

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1. (a) Match Column 'A' with Column 'B' : 10

	<i>Column 'A'</i>		<i>Column 'B'</i>
(i)	Interleukin	(A)	T-Lymphocytes
(ii)	Pontine Centres	(B)	Lymphoid Tissue Stimulation
(iii)	Corpus Luteum	(C)	Progesterone
(iv)	Thymosin	(D)	Polyphagia
(v)	Pineal Gland	(E)	Tetany
(vi)	Juxtaglomerular Cells	(F)	Inspiration
(vii)	Decrease Acidity of Body Fluids	(G)	Melatonin

- (viii) Vasopressin      (H) Renin
- (ix) Degeneration of 'B' cells      (I) A.D.H.
- (x) Hypocalcemia      (J) Aldosterone
- (K) Trypsin

(b) Briefly explain the following terms : 10

- (i) Meiosis
- (ii) Presbyopia
- (iii) Cardiac Output
- (iv) Osmosis
- (v) Functions of Platelets

2. (a) Describe the composition of air.

(b) Explain the process of transportation of Oxygen in the blood. 5+15

3. (a) Enlist the enzymes secreted by :

- (i) Stomach
- (ii) Small Intestine

(b) Describe the process of digestion in the small intestine. 4+4+12

4. (a) Draw a labelled diagram of the brain.

(b) Describe the structure and functions of the spinal cord. 6+14

5. What is 'Blood Pressure' ? Describe the factors affecting the blood pressure. 20

6. (a) Draw a labelled diagram depicting the structure of the eye.
- (b) Describe various disorders of image formation. 10+10
7. Describe in brief the renal function tests. 20
8. Write short notes on any **four** of the following : 5+5+5+5
- (a) Cell Mediated Immune System (CMIS)
  - (b) Osmosis
  - (c) Process of Synaptic Transmission
  - (d) Endocrine Glands
  - (e) Placenta
  - (f) Common Tests Done During Pregnancy
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