

No. of Printed Pages : 4

MFN-001

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

[M. Sc. (DFSM)]

Term-End Examination

December, 2022

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 Hours

Maximum Marks : 100

Note : *Attempt five questions in all. Questions No. 1 is compulsory. All questions carry equal marks.*

1. (a) Match Column 'A' with Column 'B' : 1×8=8

	Column 'A'		Column 'B'
(i)	DNA	(A)	Cell Wall
(ii)	Robert Hooke	(B)	Cork Cell
(iii)	Platelets	(C)	Genetic Material
(iv)	Organelles	(D)	Eosinophil

P. T. O.

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|------------------------|---------------------------------|
| (v) William Harvey | (E) AB Group |
| (vi) Prokaryotic Cells | (F) Physiologist |
| (vii) Granulocytes | (G) Erythropoietin |
| (viii) Eukaryotic Cell | (H) ITP |
| | (I) Cytoplasm |
| | (J) Vitamin B ₁₂ |
| | (K) Absence of nuclear membrane |

(b) Explain any **four** of the following terms in brief : 3×4=12

- (i) Mitosis
- (ii) Phagocytosis
- (iii) Ageing theories
- (iv) Plasma protein
- (v) Colourblindness

2. (a) Explain the physiology of lactation. 10
- (b) Describe the common disorders of the female reproductive system. 10

3. (a) Explain the structure of Pancreas with the help of a diagram. 10
- (b) Describe the functions of various hormones secreted by the pancreas. 10
4. (a) Describe the structure of the ear with the help of suitable diagrams. 10
- (b) Explain the process of hearing. 10
5. (a) Explain various theories of ageing. 10
- (b) Describe the age related changes in different body systems and tissues. 10
6. Define anaemia and explain different types of anaemia. 20
7. (a) Describe the structure of kidney with the help of suitable diagrams. 10
- (b) Explain the process of urine formation in human beings. 10

8. Write short notes on any *four* of the following :

5+5+5+5

- (a) Functions of Cerebellum
- (b) Permanent Contraception Methods
- (c) Glaucoma
- (d) Structure and functions of Liver
- (e) Hemoptysis
- (f) Endocrine glands