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MFN-001

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

M. Sc. (DFSM)

Term-End Examination

December, 2021

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 Hours

Maximum Marks : 100

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

1. (a) Give **one** example of each of the following :

1×10=10

- (i) Lobes of cerebral cortex
- (ii) Disorders of image formation
- (iii) Parts of hind brain
- (iv) Hormones secreted by Anterior Pituitary Gland
- (v) Cranial Nerves
- (vi) Abnormal constituents of urine
- (vii) Renal function tests

(viii) Types of Bones

(ix) Types of Antibodies

(x) Temporary methods of female contraception

(b) Briefly explain the following terms :

2×5=10

(i) Atherosclerosis

(ii) Myopia

(iii) Mitosis

(iv) Cranial nerves

(v) Osmosis

2. (a) Describe the structure of kidney with the help of a diagram. 10

(b) Explain the process of urine formation in human beings. 10

3. (a) What do you understand by the term ageing ? 4

(b) Explain various theories of ageing. 6

(c) Describe the age related changes seen in different body systems. 10

4. (a) Explain the physiology of lactation. 10

(b) Describe common disorders of the female reproductive system. 10

5. Define anaemia and explain various types of anaemia. 20

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6. (a) Describe the structure of pancreas with the help of a suitable diagram. 8
- (b) Describe the functions of various enzymes and hormones secreted by pancreas. 12
7. (a) Describe the structure of ear with the help of a diagram. 10
- (b) Explain the mechanism of hearing. 10
8. Write short notes on the following : 5 each
- (a) Structure and functions of the stomach
- (b) Female contraceptives
- (c) Signs and symptoms of Vitamin A deficiency
- (d) Chloride shift