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MFN-001

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

M. Sc. (DFSM)

Term-End Examination

June, 2020

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 :

1 each

(i) Functions of Liver

(ii) Disorders of Thyroid Gland

(iii) Cranial Nerves

(iv) Functions of Autonomic Nervous System

P. T. O.

- (v) Types of White Blood Cells
 - (vi) Enzymes in Pancreatic Juice
 - (vii) Retinol Cells
 - (viii) Male Reproductive Organs
 - (ix) Abnormal constituents of Urine
 - (x) Signs of Vitamin A Deficiency
- (b) Briefly explain the following terms in 2-3 sentences each : 2 each
- (i) Innate Immunity
 - (ii) Hinge Joint
 - (iii) Phagocytosis
 - (iv) Dialysis
 - (v) Ketone Bodies
2. (a) What is Blood Pressure ? 4
- (b) Explain various factors affecting the blood pressure. 6
- (c) Describe the various blood pressure regulatory mechanisms. 10
3. (a) What do you understand by the term "Nutrition" ? 4

- (b) Describe the classification of the nutrients. 6
- (c) Discuss the relation of various nutritional components with their physiology. 10
4. (a) Describe the structure of eye with the help of suitable diagram. 8
- (b) Discuss the signs and symptoms of Vitamin A deficiency and their corrective measures. 12
5. (a) Describe the structure and functions of Thyroid Gland. 10
- (b) Discuss the various disorders caused by hyposecretion and hypersecretion of thyroid hormones. 10
6. (a) Explain the structure of stomach with the help of suitable diagram(s). 8
- (b) Describe the mechanism of secretion of gastric juice and its composition and functions. 12

7. (a) Describe the female reproductive system with the help of suitable diagrams. 12
- (b) Explain the process of menstrual cycle. 8
8. Write short notes on any *four* of the following :
5 each
- (a) Anaemia
 - (b) Endocrine Glands
 - (c) Cataract
 - (d) Kidney Transplant
 - (e) Cardiac Cycle
 - (f) Autonomic Nervous System