

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

**Term-End Examination**

**December, 2018**

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**MFN-001 : APPLIED PHYSIOLOGY**

*Time : 3 hours*

*Maximum Marks : 100*

**Note :**

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

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1. (a) Give one example for each of the following :  $10 \times 1 = 10$
- (i) Female Contraceptives
  - (ii) Retinal Cell
  - (iii) Exocrine Glands
  - (iv) Cranial Nerves
  - (v) Ball and Socket Joint
  - (vi) Ventricles of the Brain
  - (vii) Renal Function Test
  - (viii) Types of Refractive Errors
  - (ix) Hormone secreted by Anterior Pituitary Gland
  - (x) Enzyme of Gastric Juice

(b) Explain the following in 2 – 3 sentences  
each :  $5 \times 2 = 10$

- (i) Loop of Henle
- (ii) Cardiac Output
- (iii) Tidal Volume
- (iv) Polycythemia
- (v) Cirrhosis of Liver

2. (a) What is Blood Pressure ?

(b) Explain the factors affecting blood pressure.

(c) Discuss the various blood pressure  
regulatory mechanism.  $4+6+10$

3. (a) Draw a labelled diagram of the Female  
Reproductive System.

(b) Explain the process of menstrual cycle.  $10+10$

4. (a) Draw a labelled diagram of the thyroid  
gland.

(b) Enlist various functions of the thyroid gland.

(c) Describe in brief the disorders caused by  
hypo-secretion or hyper-secretion of thyroid  
hormones.  $8+4+8$

5. (a) Describe the structure of the eye with the help of suitable diagram.
- (b) Explain in brief the various disorders of image formation with the help of suitable diagrams. 10+10
6. (a) Explain the structure of the stomach with the help of suitable diagram.
- (b) Describe the process of digestion of food in the stomach. 10+10
7. Describe the process of urine formation with the help of suitable diagram. 20
8. Write short notes on any *four* of the following : 5+5+5+5
- (a) Anaemia
  - (b) Specific Acquired Immunity
  - (c) Mechanism of Respiration
  - (d) Nerve Cell Morphology
  - (e) Liver Function Tests
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