No. of printed pages - 3

MFN-001

02098

MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination

December, 2010

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours *Maximum Marks : 100*

Note : (i) Attempt any 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. 10

(i) Enzymes of the Intestinal Juice.

(ii) Muscular Tissue.

(iii) Types of Blood Cells.

(iv) Endocrine parts of Neuron.

(v) Spinal Nerves.

(vi) Multicellular organisms.

(vii) Methods of contraception.

(viii) Constituents of Bile.

(ix) Organs of urinary system.

(x) Retina Nerve cell.

(b) Define the following : **2x5=10**

(i) Autoimmunity.

(ii) Megaloblastic Anaemia.

(iii) Cyanosis.

(iv) Enzymes.

(v) Glaucoma.

2. (a) Explain the structure of stomach with the help of suitable diagram. **10+10**

(b) Describe the composition and functions of the Gastric Juice.

3. (a) Explain the process of urine formation. **10+10**

(b) Describe in brief the various functions of the kidney.

4. (a) Explain the structure and functions of the heart. **10+10**

(b) Describe the unique properties of the heart.

5. (a) Describe the structure of the ear with the help of suitable diagrams. **8+7+5**

(b) Explain the functions of various parts of the ear.

(c) Differentiate between conduction deafness and nerve deafness.

6. (a) What do you understand by the term Endocrine Glands ? **5+5+10**

(b) Enlist the various endocrine glands found in human body.

(c) Describe the structure and functions of any one endocrine gland.

7. (a) Differentiate between active and passive transportation across the cell membrane with help of suitable examples. **10+10**

(b) Describe in brief the process of erythropoiesis and the factors regulating it.

8. Write short notes on ***any four*** of the following. **5+5+5+5**

(a) Placenta.

(b) Male Puberty.

(c) Physiology of Lactation.

(d) Disorders of image formation by eye.

(e) Mechanics of Respiration.
