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MFN-001

## MASTER OF SCIENCE (DIETETICS AND 01485 FOOD SERVICE MANAGEMENT)

## **Term-End Examination**

June, 2011

## **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.	
(i) (ii) (iii) (iv) (v) (v) (vi) (vii)	one example for each of the following : Glycoprotein released from kidney in response to tissue hypoxia 10x1=10 White blood cells Sensory organ of hearing Retinal nerve cell for colour vision Cartilage that forms 'Adam's Apple'. B - Cell that live for a long time Organ having striated in voluntary muscle Hormone acts on mammary gland for lactation Pancreatic enzyme on in the body. Type of epithelium present in mucous layer of mouth.

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- (b) Briefly explain the terms : 5x2=10
  - (i) Atherosclerosis
  - (ii) Hypoxic hypoxia
  - (iii) Olfactory area
  - (iv) Rh. Incompatibility
  - (v) Eukaryotic cell
- (a) Discuss the unique properties of cardiac 10 muscle.
  - (b) Explain different types of anaemia on the basis of etiology and morphology.
- 3. (a) Discuss the neural control of respiration. 10
  - (b) Describe the structure and functions of **10** lever.
- **4.** (a) Briefly discuss the passive transport process **10** across cell membrane.
  - (b) Discuss the function of kidney in relation to 10 maintaining water balance.
- Draw a labelled diagram of a nerve cell. Explain the process of synaptic transmission. 10+10
- 6. (a) What is the mechanism of secretion of 10 gastric juice ? Write its composition and function.
  - (b) (i) Name the hormones secreted from **4** anterior and posterior pituitary gland.
    - (ii) Discuss the role of growth hormone. **6**

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- (a) Diagrammatically describe the organ of taste 10 perception.
  - (b) Describe the structure of the eye and explain the mechanism of vision and disorders of image. 4+3+3
- 8. Write short notes on *any four* of the following :
  - (a) Cell cycle 5+5+5+5
  - (b) Specific acquired immunity
  - (c) Movements of the gastrointestinal tract
  - (d) Peripheral nervous system
  - (e) Phases of menstrual cycle