

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

**Term-End Examination**

**December, 2012**

**MFN-001 : APPLIED PHYSIOLOGY**

*Time : 3 hours*

*Maximum Marks : 100*

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- Note :**(i) *Attempt any five questions.*  
(ii) *Question No. 1 is compulsory*  
(iii) *All questions carry equal marks*
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1. (a) Give one example of each of the following : **1x10=10**
- (i) Endocrine glands
  - (ii) Female contraceptives
  - (iii) Retinal cells
  - (iv) Types of Deafness
  - (v) Cranial nerves
  - (vi) Types of Blood cells
  - (vii) Renal Functions Tests
  - (viii) Ventricles of the Brain
  - (ix) Enzymes of Gastric Juice
  - (x) Hormones Secreted by Posterior Pituitary Gland.

- (b) Explain in 2-3 sentences each of the following terms : 2x5
- (i) Autoimmunity
  - (ii) Peripheral nervous system
  - (iii) Gustation
  - (iv) Loop of Henle
  - (v) Cardiac Output
2. (a) What do you understand by the term, "Nutrition" ? 4
- (b) Describe the classification of nutrients. 6
- (c) Discuss the various nutritional components and their relation with physiology. 10
3. (a) What is Blood Pressure ? 4
- (b) Explain the various factors affecting the Blood Pressure. 6
- (c) Discuss the blood pressure regulatory mechanisms. 10
4. (a) Describe in brief the female reproductive organs. 5
- (b) What are the functions of uterus ? 5
- (c) Explain the process of menstrual cycle. 10

5. (a) Explain the structure of Thyroid Gland with the help of suitable diagram. 8
- (b) Enlist the various functions of the thyroid gland. 4
- (c) Describe the disorders caused by hypo secretion or hyper secretion of the thyroid hormones. 8
6. (a) Describe the structure of eye with the help of a suitable diagram. 8
- (b) Explain the various disorders of image formation with suitable diagrams. 12
7. (a) Explain the structure of stomach with help of suitable diagram. 6
- (b) Describe the mechanism of secretion of the gastric juice. 7
- (c) Write the composition and functions of the gastric juice. 7
8. Write Short Notes on *Any Four* of the following : 5+5+5+5
- (a) Anaemia
- (b) Emergency contraception
- (c) Communication between neurons
- (d) Cataract
- (e) Kidney Transplant
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