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MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT) 02965 **Term-End Examination** June, 2015 **MFN-001 : APPLIED PHYSIOLOGY** Maximum Marks : 100 Time : 3 hours Note : (i) Attempt any five questions. (ii) Question No. 1 is compulsory. (iii) All questions carry equal marks. Give one example for each of the 1. (a) $1 \times 10 = 10$ following : (i) Enzyme of Gastric Juice (ii) Connective Tissue (iii) Type of muscle tissue (iv) Type of Antibody (v) Unicellular organism (vi) Renal Function Tests (vii) Errors of refraction (viii) Endocrine Glands (ix) Retinal Nerve Cells (x) Spinal nerves Briefly explain the following terms in (b) 2 - 3 sentences each : 2x5 = 10(i) Cyanosis Tidal Volume (ii) (iii) Alzheimer's disease (iv) Enzymes Puberty (v)

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P.T.O.

- (a) Explain the structure and functions of the heart. 10+10
 - (b) Describe the unique properties of the heart.
- 3. (a) Explain the structure and functions of the stomach. 10+10
 - (b) Describe the composition and functions of the gastric juice.
- 4. Describe the structure and functions of the Autonomic Nervous System. 5+15
- (a) Draw and label the different parts of a 6+4 nephron. Enlist the various functions of kidney.
 - (b) Explain the process of urine formation in 10 the human body.
- (a) What do you understand by the term "Endocrine Glands" ? 4+4+12
 - (b) Enlist the endocrine glands present in human body.
 - (c) Describe the structure and functions of any of the endocrine glands.
- 7. Explain the following terms briefly : 4x5=20
 - (a) Sinus Bradycardia
 - (b) Sinus Tachycardia
 - (c) Sinus Arrhythmias
 - (d) Ventricular Fibrillation
 - (e) Secondary Hypertension

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

(a) Functions of Liver

5+5+5+5

- (b) Mid Brain
- (c) Contraception
- (d) Structure and function of middle ear
- (e) Mechanics of Respiration