

02855

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

Term-End Examination

December, 2017

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

Note : (i) Attempt 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 :
- (i) Types of Anaemia. 1x10=10
 - (ii) Disease of eye.
 - (iii) Renal Function Test.
 - (iv) Chambers of Heart.
 - (v) Endocrine Glands.
 - (vi) Female Contraceptive.
 - (vii) Process of Cell Division.
 - (viii) Types of Connective Tissue
 - (ix) Spinal nerves
 - (x) Abnormal Constituents of Urine.
- (b) Briefly explain the following terms in 2-3 sentences each :
- (i) Auto immunity 2x5=10
 - (ii) Haemodialysis
 - (iii) Cardiac out put
 - (iv) Cochlea
 - (v) Blood Urea Nitrogen (BUN)

2. (a) Describe the structure and functions of the heart. 12+8
(b) Discuss the factors affecting the Blood Pressure.
3. Describe the structure and functions of the Autonomic Nervous System. 20
4. (a) Describe the mechanism of respiration. 12+8
(b) Discuss the various neural mechanisms for control of respiration.
5. (a) Describe the structure of ear with the help of suitable diagrams. 12+8
(b) Discuss the functions of middle ear.
6. (a) Explain the structure of Liver with the help of suitable diagrams. 10+5+5
(b) Enlist the various functions of liver.
(c) Describe the regulation of secretion of insulin.
7. (a) What is the role and function of the placenta ? 5+15
(b) Describe the growth and development of foetus upto 32 weeks of gestation.
8. Write short notes on any four of the following :
(a) Renal Function Tests 5+5+5+5
(b) Contraception
(c) Gastric Juice
(d) Synaptic Transmission
(e) Refractive Errors
(f) Layers of Retina
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