MASTER OF SCIENCE (DIETETICS AND FOOD SERVICE MANAGEMENT)

Term-End Examination December, 2013

MFN-001: APPLIED PHYSIOLOGY

Time: 3 hours Maximum Marks: 100 Attempt any five questions. **Note** : (i) Question No. 1 is compulsory. (ii) All questions carry equal marks. (iii) 1x10=101. (a) Match column 'A' with column 'B': B (i) William Harvey (A) Cork cell (ii) DNA Cell wall (B) Prokaryotic Cell (C) Eosinophil (iii) Granulocyte (iv) (D) Genetic material (v) Robert Hooke (E) AB Group (vi) Organelles (F) Physiologist Cytoplasm (vii) Glycoproteins (G) (viii) Eukaryotic Cell Erythropoietin (H) (ix) Plate lets (I) Absence of nuclear membrane (x) Universal Receipient (J) ITP (K) Vitamin B₁₂

		(1) Phagocytosis	
		(ii) Function of Plasma Proteins	
		(iii) Steps of mitosis	
		(iv) Cytoskeleton	
		(v) Theories of Ageing	
2.	(a)	What are the uniqueness of heart?	10
	(b)	Briefly describe the Cardiac Cycle.	10
3.	(a)	Explain the composition of air.	4
	(b)	Describe the transport of oxygen in blood.	16
4.	(a)	Name the enzymes secreted by small intestine.	4
	(b)	Discuss the digestion of food in the small intestine.	16
5.		ribe the renal function tests done commonly ractice.	20
6.	(a)	What are the various processes of transport through cell membrane?	5
	(b)	Discuss the passive transport mechanism in detail.	15

(b) Briefly explain the following terms: 2x5=10

- 7. (a) What are the parts of midbrain?
 - (b) Discuss the structure and functions of: 8+8
 - (i) Cerebellum and
 - (ii) Spinal Cord
- 8. (a) Describe the structure of eyeball, with the 14 help of diagrams.
 - (b) Compare the properties of rods and cons. 6