

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

Term-End Examination

June, 2013

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

- Note : (i) Attempt **any five** questions.
(ii) Question No. 1 is compulsory.
(iii) All questions carry equal marks.*

1. (a) Match column 'A' with column 'B' 1x10=10

A	B
(i) Growth	(A) Maturation of function
(ii) Vitamin C	(B) Blood clotting
(iii) Vitamin B ₁₂	(C) Ribosome
(iv) Vitamin K	(D) Scurvy
(v) Development	(E) Increase in size
(vi) Lysosome	(F) Extra uterine erythropoiesis
(vii) De differentiation	(G) Intracellular Digestion
(viii) Endoplasmic Surface	(H) Reverting back to meristematic state
(ix) Cell Theory	(I) Megablastic Anaemia
(x) Bone Marrow	(J) Omnis cellulae -e cellulae
	(K) AB Group

- (b) Briefly explain the following terms : **2x5=10**
- (i) Platelet
 - (ii) Prokaryotic cell
 - (iii) Age related changes in body systems
 - (iv) Types of antibodies
 - (v) Types of connective tissues
2. (a) Discuss the factors affecting the blood pressure. **14**
- (b) How will you keep your heart healthy ? **6**
3. (a) What are the neural mechanisms for control of respiration ? **6**
- (b) Discuss the functions of centres in brain that regulate the respiration. **14**
4. (a) Describe the structure of tongue with the help of a diagram. **12**
- (b) Discuss the functions of salive. **8**
5. (a) What is GFR ? Describe the factors affecting GFR. **2+10**
- (b) Discuss the formation of urine through selective reabsorption. **8**

6. (a) Discuss the process of synaptic transmission with the help of a diagram. 12
- (b) Draw a diagram of the neuron and enumerate its functions. 8
7. (a) Enlist the hormones secreted from Pancreas. 4
- (b) Discuss the regulation of secretion of insulin. 10
- (c) Explain the functions of insulin. 6
8. (a) What is the role and function of the placenta ? 6
- (b) Describe the growth and development of fetus upto 32 weeks of gestation. 14
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