First Semester Examination-2017 M.Sc. NUTRITION & DIETETICS

Paper Code: NUD-101

Full Marks: 40

Write the answer for each unit in separate sheet

Unit-I

Answer question no.1 & any 3 from the rest

Q.1 Answer any five of the following

- a) Which hormone regulate blood pressure
 - i) Oxytosin ii) Angiotensin II
 - iii) Renin iv) Angiotensinogen

b) Cholesistokinin is secreted from-

- i) Pancreus ii) Liver
- iii) Gallbladder iv) Gastrointestinal tract
- c) What is the normal amount of GFR for a healthy adult person?
 - i) 125ml/min ii) 120ml/min
 - iii) 130ml/min iii) 90ml/min
- d) Myocytes present in which muscle?
 - i) Cardiac muscle ii) smooth muscle
 - iii) Skeletal muscle iv) All of the above
- e) Apneustic centre present in
 - i) Medulla ii) Pons
 - iii) Lungs iv) Heart
- f) Platelets are formed from the cell
 - i) Melanocytes ii) Macrophages

Time: 2 Hours

 $1 \times 5 = 5$

iii) Megacaryocyte iv) Astrocytes

(Turn Over)

- g) What structural component protects the lungs from outside injury?
 - i) Cartilage ii) Tinysacs
 - iii) The ribs cage iv) Diaphragm
- h) ANF is secreted from
 - i) Lungs ii) Heart
 - iii) Kidney iv) Testis
- **Q.2** a) Write the composition of gastric juice. 2+2+1=5
 - b) Write the function of bile salt.
 - c) What is role of gastrin?
- Q.3 a) Write the impact of Bohr effect and Haldane effect on O2 and CO2 transport. $1^{1/2}+1^{1/2}+2=5$

b) Write the name of chemoreceptor in regulation of respiration.

Q.4 a) How does rennin angiotensin aldosteron mechanism helps blood pressure?

b) How kidney regulate acid base balance?

Q.5 a) Briefly state about the absorption of digestive end products of triglyceride.

b) Write names of enzymes for protein digestion.	3+2=5
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- **Q.6** a) write the non excretory function of kidney. 2+2+1=5
 - b) Write the function of J.G cell.
 - c) What is renal threshold?
- Q.7 a) Write the mechanism of changes of intrathoracic pressure during breathing.3+2=5
 - b) Write the role medulla in regulation of breathing.

3+2=5

Unit- II

Answer question no.8 & any 3 from the rest

Q.8	8 Write any five of the following: 1×5			1×5=5
	a) Cytokines are-			
	i) Steroid ii) Carcinogens			
	iii) Lipid iv) Polypeptides			
	b) The functions of macrophages include-			
	i) Phagocytosis ii) Antigen presenting cells			
	iii) Cytokine production iv) All of these			
	c) β lymphocytes differentiate to form-			
	i) Plasma cell ii) Effector cell			
	iii) Plasma cell & memory B cell iv) None of these			
	d) A sensory neuron of the peripheral nervous system take nurve impulse from sensory receptor to the-			
	i) Motor neurons ii) Inter neurons			
	iii) Antonomic neuron system iv) Central nervous system			
	e) Which following pair of organ are known as exclusively endocrine gland?			
	i) Thymus and testis ii) Adrenal and ovary			
	iii) Pancreus and parathyroid iv) Adrenal and parathyroid			
	f) Which one of the following pairs is odd?			
	i) Glucagon-Beta cells (source) ii) Insulin-Diabetis (disease)			
	iii) Somatostatin-Delta cells (source) iv) Corpusluteum-Relaxin (secretion)			
	g) which hormone possesses anti insulin effect?			
	i) Cortisol ii) ald	dosteron		
	iii) Calcitonin iv) O	xytosin	(7	^r urn Over)

h) Which one of the following is not a secondary measurer in hormone action?

i) cAMP ii) cGMP

iii) Sodium iv) Ca²⁺

Q.9 a) "Nutrients acts as immunomodulatory food or substances" statement.	Justify the 3+2=5
b) Why is insulin known as antiketogenic hormone?	
Q.10 a) Write the role of hormone secreted from thymus.	3+2=5
b) What is hypersensitivity?	
Q.11 a) What do you mean by auto immunity?	2+3=5
b) Write the difference between passive and active immunity.	
Q.12 a) What is the role of HPA axis on stress?	3+2=5
b) What do you mean by thalamic nuclei?	
Q.13 a) Write the role of neurotransmitter.	2+3=5
b) Discuss briefly about cellular immunity?	
Q.14 a) What is cryptorchidism?	$1^{1/2}+1^{1/2}+2=5$
b) Mention the function of sertoli cell.	
c) What is meant by menopause?	
