MFN-001

MASTER OF SCIENCE (DIETETICS AND 01192 FOOD SERVICE MANAGEMENT)

Term-End Examination

December, 2011

MFN-001 : APPLIED PHYSIOLOGY

Time : 3 hours

Maximum Marks : 100

(i) Attempt any five questions in all. Note : (ii) Question no. 1 is compulsory. (iii) All questions carry equal marks.

(a)	Match column A with	n colı	ımn 'B' 10x1=10
	A		В
(i)	Hypocalcaemia	(A)	T-lymphocytes
(ii)	Degeneration of B cell	(B)	Lymphoid tissue
			stimulation
(iii)	Vasopressin	(C)	Progesterone
(iv)	Decrease acidity of	(D)	Polyphagia
	bodyfluid		
(v)	Juxta glomerular cell	(E)	Tetany
(vi)	Pineal gland	(F)	Depth of inspiration
(vii)	Thymosin	(G)	Melatonin
(viii)	Corpus Luteum	(H)	Renin
(ix)	Pontine centre	(I)	Antidiuretic hormone
(x)	Interleukin	(J)	Aldosterone
	 (a) (i) (ii) (iii) (iv) (v) (vii) (viii) (ix) (x) 	 (a) Match column A with A A (i) Hypocalcaemia (ii) Degeneration of B cell (iii) Vasopressin (iv) Decrease acidity of bodyfluid (v) Juxta glomerular cell (vi) Pineal gland (vii) Thymosin (viii) Corpus Luteum (ix) Pontine centre (x) Interleukin 	 (a) Match column A with columA (a) A (b) A (c) Hypocalcaemia (c) Degeneration of B cell (c) Degeneration of B cell (c) Corpase acidity of (D) (c) Juxta glomerular cell (c) Juxta glomerular cell (c) Pineal gland (c) Viii Thymosin (c) Corpus Luteum (c) (c) Pontine centre (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)

(K) Trypsin

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P.T.O.

(b) Briefly explain the terms :

2x5 = 10

- (i) Presbiopia
- (ii) Plastid
- (iii) Universal blood donor
- (iv) Haemostasis
- (v) Phagocytosis
- 2. (a) Describe factors that affect the cardiac output. 8+12
 - (b) Discuss the common causes of secondary hypertension.
- 3. (a) How will you provide artificial respiration ?
 - (b) Discuss chemical control of respiration. 6+14
- 4. (a) What are the composition and function of 10 Bile ? How is it secreted ?
 - (b) Give the structure and functions of the **10** Pancreas.
- 5. (a) How does the kidney maintain pH balance ? 10Discuss in relation to acid and alkaline diets.
 - (b) Briefly discuss the renal function tests. 10
- 6. (a) Name the cranial nerves.
 (b) Discuss the effects of sympathetic and parasympathetic stimulations on the body
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system.

- 7. (a) Discuss structure and function of ovary. 8
 - (b) Schematically explain the organs involved 6 in taste perception.
 - (c) Enlist the functions of the hormones 6 produced by adrenal cortex.
- 8. Write short notes on *any four* of the following.
 - (a) Physiology of lactation. 5+5+5+5
 - (b) Endocrine glands in our body
 - (c) Major functions of cerebellum
 - (d) Difference between active and passive transport systems.
 - (e) Large Intestine structure and functions.