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MFN-001

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

Term-End Examination, 2019

MFN-001: APPLIED PHYSIOLOGY

Time: 3 Hours] [Maximum Marks: 100

Note: Attempt five questions in all. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) Give one example of each of the following:

[1x10=10]

- (i) Self replicating cytoplasmic organelle of plant
- (ii) Granulocyte
- (iii) Site of erythropoiesis at 3-4 month intrauterine life
- (iv) Large vein supplying blood to right atrium
- (v) Part of pharynx

		(VI)	Salivary gland	
		(vii)	Enzyme of Pancreas	
		(viii)	Gastrointestinal hormone	
		(ix)	Lobe of cerebral cortex	
		(x)	Organism that never die	
	(b)		y explain the following terms in 2- nces each: [2x5=1	
		(i)	Undifferentiated cell	
		(ii)	Classification of animal tissue	
		(iii)	Sickle cell anemia	
		(iv)	Bence-Jones protein	
		(v)	Dead space	
2.	(a)	What	is cell cycle ?	[4]
	(b)	Name	e the phases of cell cycle.	[4]
	(c)	Discu	ss the mitosis process with diagrams.[	12]

3.	(a)	What is acquired immunity?	[2]
	(p)	What are the types of acquired immunity?	[2]
	(c)	Discuss in detail about the cell mediated immusystem.	ine 16]
4.	(a)	List the organs of Respiratory system.	[4]
	(b)	Discuss with diagram the structure and function of Lungs. [8	ons +8]
5.	(a) <b>"</b>	What is the composition and function of gas juice?	tric +6]
	(b)	Discuss the mechanism of secretion of gas juice.	tric [8]
6.	(a)	What is the functional unit of Kidney?	[2]
	(b)	Discuss its structure with suitable diagram.	[6]
	(c)	Explain the various functions of the functional of Kidney.	unit 12]
7.	(a)	Draw a labelled diagram of nerve cell.	[6]
	(b)	How do the nerves communicate?	[6]

(3)

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[P.T.O.]

(c) Discuss the process of synaptic transmission.

[8

- 8. Write short notes on **any four** of the following: [5x4=20
  - (a) Functions of Pituitary gland
  - (b) Disorders of image formation of eyes
  - (c) Mechanism of Phagocytosis
  - (d) Cardiac cycle
  - (e) Structure and functions of antibody
  - (f) Age related changes in alimentary canal