IDA REGISTERED DIETITIAN EAMINATION

7th NOVEMBER 2015

PAPER I (Physiology, Microbiology, Biochemistry)

Time: 2 Hours	Max . Marks: 100
Answer All Questions	
SECTION A	
I. Multiple Choice Questions	(10 x2 = 20 marks)
1. Bile acid has a detergent action due to	
a. formation of soap	
b. formation of zwitter ion	
c. amphipathic nature of bile acids	
d. formation of medium chain triglycerides	
2. A simple sensitive test for CHO metabolism is	breath test
a) Oxygen b) Nitrogen c) Carbon d) Hydrogen	
3. What is the fate of any enzyme that is present in the foods wea) Hydrolysed in the GI tract	e eat?
b) Absorbed intact by the small intestine	
c) Passed through the GI tract & Excreted in the stool	
d) Absorbed intact by the small intestine	
4. In Alcoholic cirrhosis is elevated a) Albumin b) SGOT c) SGPT d) GGT	
5. During starvation, the major source of blood glucose is	1 1 1 1 1
a) Hepatic glycogenolysisb) Gluconeogenesisc) Mud) Dietary glucose from intestine	iscie giycogenolysis
6. With reference to microorganism the water activity (a _w) for p	ure water is

b) 9.99 c) 0.9823 d) 0.1

a) 1.00

7.	The two nutrients together are called symporters
	 a) Glucose & Potassium b) Glucose & Sodium c) Glucose & amino acid D) Glucose & free fatty acids
8.	Prevention of self decomposition can be accomplished by a) Blanching b) Washing c) Chemicals d) Heat
9.	Stress causes damage to gland and it in turn causes cancer a) Pituitary b) Thymus c) Thyroid d) Adrenal
10	0. SGOT returns to normal within days after MI a) 1-3 b) 2-4 c) 3-5 d) 4-6
	SECTION B (50 Marks)
II. E	explain the following terms in one or two sentences $(5x1 = 5 \text{ marks})$
1.	. Rouleaux formation
2.	Blind loop syndrome
3.	. Graveyard of RBCs
4.	Zollinger Ellison syndrome
5.	. Hypercapnic
III. V	Write the name of the condition / disorder caused by the following $(5x1 = 5 \text{ marks})$
1.	. Inflammation in the bile ducts, may be acute or sclerosing
2.	Absence of hydrochloric acid and pepsin in gastric juice
3.	Phenylalanine hydroxylase deficiency
4.	Pain associated with swallowing
5.	Bacterial infection of the kidneys
IV. S	State whether the following statements are true or false $(5x1 = 5 \text{ marks})$
1.	. Incretins can slow down the rate of absorption by reducing gastric emptying
2.	Cytokines are the hormone like proteins that act as intercellular messengers

3.	Only cardiac muscles ha	ve troponin T in them, and not skeletal or smooth			
4.	4. Visfatin is an adipocytokin secreted by visceral adipose tissue				
5.	5. 50% of dextrose $X = 250$ mOsm per litre				
V. M	atch the following	(6x1 = 6 marks)			
1.	Calcitonin	a. Glycogen phosphorylase			
2.	Mc'Ardles diseases	b. Egg yolk			
3.	Inulin	c. Cabbage			
4.	Phosphotidyl choline	d. Chicory			
5.	C- Reactive protein	e. Broccoli			
6.	Sauerkraut	f. Early biomarker for cardiac & neoplastic diseases			
		g. Novel Protein			
		h. Lowers serum calcium			
VI. N	ame one organism /toxica	nt involved in each of the following $(5x1 = 5 \text{ Marks})$			
1.	Aflatoxin				
2.	Patulin				
3.	Giardiasis				
4.	Trichinosis				
5.	Luteoskyrin				
VII.	Fill in the blanks	(5x1 = 5 Marks)			
1.	1. The absorption of glucose is decreased by the deficiency of				
2.	2 is an agent, which increases the release of bile from gall				

bladder into the intestine by contraction of gall bladder

3.	The specific enzyme secreted in the stomach of infants &	children is
4.	Organic substance is responsible for causi	ng Hepatic
	encephalopathy	
5.	is the commonest Oro-fecal microorganism the	at causes GI
	disorders.	
VIII.	Expand the following and give one significance of the same $(5x2 =$	10 Marks)
1.	HHS	
2.	FSSAI	
3.	CCPD	
4.	SLE	
5.	GRAS	
IX. G	ive any two differences between: (3x3	5 = 9 Marks)
1.	Insulin & Glucagon	
2.	Starvation & Cachexia	
3.	Dyspepsia & Dysphagia	
	SECTION – C	
X. An	swer any two questions (2x15	= 30 Marks)
1.	a. Write on control measures to prevent food borne diseases and pred	autions to be
	taken by food handlers	(7 marks)
	b. Discuss on any two fermented foods under following heading	(6 marks)
	i. Raw material used, organisms and products obtained	
	c. Write two benefits of fermentation	(2 marks)
2	Discuss on five harmones that aid and regulate the discotive system	(15 marks)
۷.	Discuss on five hormones that aid and regulate the digestive system	(15 marks)
3.	Discuss how enzymes are used as therapeutic agents	(15 marks)