### TILAK MAHARASHTRAVIDYAPEETH, PUNE

# M.SC. IN NUTRITION& FOOD SCIENCE

## **EXAMINATION : APRIL/MAY - 2024**

### FIRST SEMESTER

Sub.: Classification of Aahariya Dravya & Clinical Bio-Chemistry (M.Sc. CB-114)

Date: 09/05/2024		/05/2024	Total marks: 60	Time: 10.00 am to 12.30 pm		
Insti	1)	ions: )All questions are compulsory. ) Figures to the right indicate f				
			<b>SECTION A</b>			
Q. 1	Se	lect the correct alternative.			(5)	
	1)	Sheeta guna is responsible fo	orin body.			
		a) Stiffness	b) Looseness			
		c) Sweating	d) Oilyness			
	2)	2) Bruhan is karma ofRasa.				
		a) Amla	b) Katu			
		c) Madhur	d) Lavan			
	3)	3) Kathin Guna is having predominance ofDosha.				
		a) Vata	b) Pitta			
		c) Kapha	d) Rakta			
	4)	Vipak of Lavan Rasa is	·			
		a) Madhur	b) Amla			
		c) Lavan	d) both b & c			
	5)	5) There arepairs of Guna.				
		a) 10	b) 20			
		c) 18	d) 9			
Q. 2	Answer the following questions. (Any Two)			(10)		
	1)	Madhur Rasa				
	2)	Vipak				
	3)	Explain any two Guna pairs.  1) Sheeta-Ushna 2) Guru-	Laghu 3) Snigdha-Ruksha			
Q. 3	Answer the following questions. (Any One)			(15)		
	1)	1) Write in detail about Dravya & its classification.				
	2)	Write in detail about Deepan karma, Grahi Karma & Stambhan Karma with examples.				

### **SECTION B**

Q. 1	Select the correct alternative.				
	1 products are synthesized in the HMP Shunt pathway.				
	a) Pentoses	b) NADPH			
	c) Both a & b	d) None of the above			
	2. MSUD is a genetic disorder caused due to the deficiency of the enzymes required for the metabolism of				
	a) BCAA	b) Phenylalanine			
	c) Fructose	d) Lactose			
	3. Complex V of the ETC system is				
	a) Cytochrome oxidase	b) ATP Synthase			
	c) NADH-CoQ reductase	d) None of the above  b) Liver d) Gut			
	4. Ketone bodies are synthesized in				
	a) Brain				
	c) Kidneys				
	5 hormones are responsible for the fight or flight response.				
	a) Thyroxine& insulin	b) Epinephrine & norepinephrine			
	c) Glucagon & calcitonin	d) FSH & LH			
Q. 2	Answer the following questions. (Any One)				
	1. What is Krebs cycle? Explain using diagrammatical representation along with its significance.				
	2. Explain $\beta$ -oxidation proper along with the carnitine shuttle system.				
Q. 3	Write a Short note. (Any two)				
	1.Glycolysis				
	2.Phenylketonuria				
	3.Hemoglobin & Myoglobin				