Duration: 3 Hours

Maximum Marks: 100

Instructions to the candidates:- Please check that you have got the correct question paper. 1) All the questions are compulsory. Choice is internal. 2) Figures to the right indicate full marks. 3) All questions carry equal marks. 4) Draw flowcharts /diagrams wherever necessary. Q1 A) Fill in the blanks i) Principal cation of the extra cellular fluid is occurs when a child doesn't eat enough protein and energy to ii) meet nutritional needs The vitamin responsible for synthesis of blood clotting factors is iii) iv) ____ is a person's weight in kilograms divided by the square of height in meters. Write short note on ANY ONE Q1 B) Biochemical role of K & Fe as a nutrient i) ii) Energy assessment - BMR **Answer ANY TWO** 12 Q1 C) Explain- Respiratory Quotient. i) Justify: The Respiratory Quotient varies for a diet rich in protein to that rich in carbohydrates Justify, dietary fibers play an important role in human nutrition ii) iii) Discuss the functions of proteins as macro-nutrient Fill in the blanks **Q2 A)** 4 ____ for a lactating mother are the The mineral requirement containing i) same as during pregnancy milk provides all nutrients in the right proportion as needed for the rate ii) of growth of the infants & in easily digestible forms iii) is a condition in which there is blockage of the flow of bile out of the liver. iv) Treatment for ulcers consists of rest, therapy & regular and frequent bland meals **O2 B**) Discuss the dietary management in ANY ONE 4 Obstructive jaundice ii) Hypertension **Q2 C**) **Answer ANY TWO 12** Design a diet for a Mr. Mahi who is a geriatric individual with Diabetes Mellitus i) Discuss the importance of nutrition during pregnancy ii) iii) Write a descriptive note on meal planning

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Q3 A)	Fill in the blanks	4
(i)	Half-life of a drug is	
(ii)	dose is more than the maintenance dose	
(iii)	A bioassay method which involves slow administration of drug until fatal effect is	
	known as	
iv.	The bioavailability of a drug administered via route is 1.	
Q3 B)	Justify ANY ONE	4
i)	Bioavailability and Bioequivalence are not synonyms.	
ii)	Drug absorption is dependent on various factors	
,		
Q3 C)	Answer ANY TWO	12
i)	Create a note on the different factors affecting drug absorption.	
ii)	Discuss the principles and methods of bioassay.	
iii)	Write a detailed note on drug excretion.	
Q4 A)	Fill in the blanks	4
i)	is a calcium channel blocker.	
ii)	The science which is concerned with the study of mechanism of action of drug and	
	pharmacological effects produced on the human body is known as	
iii)	are drugs used to relieve pain.	
iv)	Sulfonamides are in their action.	
04 D	ALL STANK ONE	4
Q4 B)	Attempt ANY ONE Instifut Days response is predicted through different types of recentors	4
i) ii)	Justify: Drug response is mediated through different types of receptors.	
) III)	Explain in detail the pharmacodynamics of PPIs.	
Q4 C)	Answer ANY TWO	12
i)	Comment on the pharmacological relevance of:	12
	a. Placebos b. Antimetabolites c. Antiseptics	
ii)	Explain the mechanism of action and adverse reactions associated with salicylates.	
,,	Suggest any other drugs that function as antipyretics and analgesics.	
iii)	Elaborate on the bactericidal action of penicillin.	
20T		
Q5 A)	Define and explain	8
a)	Protein corrected amino acid score	Ū
.0	OR OR	
b)	Macro-nutrient	
c)	Adolescence	
	OR OR	

- d) Pre-schooler
 e) TD₅₀

 OR
 f) Pharmacology
 g) Antagonist

 OR
- h) Non-receptor mechanism

Q5 B) State True or False with justification

i) Zn is an essential nutrient & is ubiquitous in the body

- ii) Carbohydrates are not the principal source of energy, supplying 10-20% of the caloric requirements of the body
- iii) Intestinal bacteria ferment some fibers, causing flatulence and often discomfort.
- iv) Pharmacodynamics and pharmacokinetics are synonyms
- v) Vaccines stimulate natural active immunity
- vi) Biotransformation of drugs involves three phases.
