## QP Code: MMB103

Time: 3 Hours

## M.Sc. [Medical Biochemistry] (BF/2023/12)

## **Nutrition & Dietetics**

[Paper - III]

M.M.: 100

Note:	<ul> <li>Attempt all questions.</li> <li>NO SUPPLEMENTARY SHEET SHALL BE ALLOWED /PROVIDED</li> <li>The Student must write Q.P. Code in the space provided on the Title Page of the Answer Book.</li> <li>Illustrate your answers with suitable diagrams.</li> </ul>	
1.	Describe the biochemical functions of calcium in the body. Explanation homeostasis is maintained in the body.	ain how calcium [10]
2.	Define based metabolic rate. Explain in detail the factors affecting based	metabolic rate. [10]
3.	Write briefly on  a. One carbon metabolism  b. Balanced diet	$[5 \times 2 = 10]$
4.	Write short notes on  a. Biochemical functions of vitamin C  b. Protein energy malnutrition	[5×2=10]
<ul><li>5.</li><li>6.</li></ul>	Explain why  a. Copper deficiency adversely effects iron metabolism  b. Athletes have higher BMR  c. Patients with rickets have bone deformities  d. Dental caries occurs in fluorine deficiency  Write short notes on  a. Coenzyme form and biochemical Function of Vitamin B1  b. Pellegra	[2.5x4=10] [5×2=10]
7.	Describe Briefly a. Wilson's disease b. Dietary fibre and its importance	[5×2=10]
8.	Describe briefly a. Anemia b. Specific dybamic action	[5×2=10]
9.	<ul><li>Compare and Contrast</li><li>a. Dry beri beri and wet beri beri</li><li>b. Water soluble and fat soluble vitamins</li></ul>	[5×2=10]
10.	Write Short notes on a. Ward's visual cycle b. Nutritional requirements in el elderly	[5×2=10]