

2021

BIOCHEMISTRY — GENERAL**Paper : DSE-A-1****(Nutritional Biochemistry)****Full Marks : 50***The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer **any five** questions : 2×5
 - (a) What is ROS?
 - (b) Define any one energy unit.
 - (c) Mention the disease of fluoride deficiency.
 - (d) What are lipotropic factors?
 - (e) Name one essential fatty acid.
 - (f) What is the full form of RDA and mention its significance?
 - (g) Mention two deficiency symptoms of Vit-D.
 - (h) What is PEM?
 - (i) What is the full form of RNI?
 2. Answer **any two** questions :
 - (a) (i) Classify the dietary FAs.
 - (ii) What is BMI? 3+2
 - (b) Name the omega FAs with its biological role. 5
 - (c) Discuss the Recommended Dietary Allowances of Amino acids for different age group. 5
 - (d) (i) What is the full form of ADME?
 - (ii) How it is related to Nutritional Biochemistry? 2+3
 3. Answer **any three** questions :
 - (a) (i) Discuss the role of Vit-A in visual cycle.
 - (ii) Briefly discuss the role of iron in prevention of anemia. 5+5
 - (b) (i) Write a short note on the hormonal regulation of blood glucose.
 - (ii) Vit-E acts as an antioxidant— describe briefly. 5+5
 - (c) (i) What is z-scores? How it is measured?
 - (ii) Give a brief note on the role of Zn in human body. 5+5
 - (d) Discuss the Apolipoproteins. Describe the absorption and transport of lipid. 5+5
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