

Instructions:

- 1) Use **blue/black** ball point pen only.
- 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
- 3) **All** questions are **compulsory**.
- 4) The number to the right indicates **full** marks.
- 5) **Draw** diagrams **wherever** necessary.
- 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
- 7) Use a common answer book for **all** Sections.

Section-A (45 marks)**Nutrition**

1. Short answer questions (**any five** out of six) : (5x5=25)
 - a) Discuss food adulteration.
 - b) Explain Mid day meal programme.
 - c) Discuss Micro and Macro nutrients.
 - d) Classification of Carbohydrate.
 - e) Explain factors affecting Basal Metabolic Rate.
 - f) Explain the functions of Vitamin D.

2. Long answer questions (**any two** out of three) : (2x5=10)
 - a) Discuss principles of Menu planning.
 - b) Describe the effect of cooking on carbohydrates.
 - c) Explain the deficiency disorders of Vitamin A.

3. Short answer questions (**any two** out of three) : (2x5=10)
 - a) Explain the factors to be considered while serving food to the patient.
 - b) Explain factors affecting nutrition.
 - c) Discuss the use of heat for food preservation.



Section-B (30 marks)

Biochemistry

4. Short answer questions (**any four** out of five) :

(4 x5=20)

- a) Write diagnostic significance of enzymes.
- b) Write a note on essential fatty acids.
- c) Describe Cori's cycle.
- d) Enumerate fat soluble vitamins. Give an account of biochemical functions of Vitamin A.
- e) What are immunoglobulins? Give their types along with functions.

5. Long answer questions (**any one** out of two) :

(1x10=10)

- a) Describe oxidation of fatty acids with its energetics.
 - b) Give sources and functions of calcium. Describe serum calcium regulation.
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