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M.Sc.(MLT) (Biochemistry) (2015 to 2017) (Sem.-2) VITAMINS, HORMONES, GENERAL PHYSIOLOGY AND NUTRITION

Subject Code: MMLT-203 Paper ID: [E1238]

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1) Write a detailed note on water soluble vitamins and their deficiency diseases.
- 2) Write short notes on:
 - a) Hexose monophosphate Shunt.
 - b) Irritable bowel syndrome.
- 3) Explain the purpose and the process of lipogenesis.
- 4) Describe in detail source, function and importance of trace mineral salts.
- 5) Describe the sliding filament model of muscle contraction.
- 6) Write notes on:
 - a) Drug biotransformation.
 - b) Lactic acid fermentation.
- 7) a) Discuss in detail genetic basis of nitrogen fixation.
 - b) Write a short note on gluconeogenesis.
- 8) Discuss five basic mechanisms of antibiotic action against bacterial cells.