



**First P.B. B.Sc. Nursing Examination, (Phase - III) Winter - 2021
MICROBIOLOGY**

Total Duration : 3 Hours

Total Marks : 75

- 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" (40 Marks)

1. Short answer questions (**any five** out of six) : [5 × 5 = 25]
 - a) Gram Staining
 - b) Agglutination Reaction
 - c) Factors influencing antibody production
 - d) Anaphylaxis
 - e) Immunoglobulin G
 - f) ELISA test

2. Long answer questions (**any one** out of two) : [1 × 15 = 15]
 - a) Enumerate the organism causing diarrhea. Describe the morphological, cultural and antigenic characteristics of E. Coil

 - b)
 - i) Describe the pathogenesis and Laboratory diagnosis of Rabies. [5]
 - ii) Discuss the clinical stages of Rabies in humans and in dog. [5]
 - iii) Explain the prophylaxis and treatment of Rabies in human. [5]

SECTION "B" (35 Marks)

3. Short answer questions (**any four** out of five) : [4 × 5 = 20]

- a) Bacterial Spore
- b) Cultural characteristics of staphylococci
- c) Plasmids
- d) Pyrexia of Unknown Origin (PUO)
- e) Life cycle of malaria Parasite

4. Long answer questions (**any one** out of two) : [1 × 15 = 15]

- a)
 - i) Classification of spirochetes. [3]
 - ii) Discuss morphology and cultivation of Treponema Pallidum. [6]
 - iii) Describe antigenic structure and pathogenicity of Treponema Pallidum. [6]
- b)
 - i) Explain Classification and morphology of human herpesvirus. [5]
 - ii) Discuss pathogenicity and laboratory diagnosis of varicella. [5]
 - iii) Describe prophylaxis and treatment of varicella. [5]

