Instructions:

1. Do not wear any electronic device, or bring any book or notes into the examination room.
2. Do not wear anything on the head, except for a hat. If wearing a hat, it will be considered as an attempt to cheat.
3. All questions are compulsory.
4. The number to the right indicates full marks.
5. Draw diagrams wherever necessary.
6. Distribution of syllabus in the question paper is only meant to cover the 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.
7. Use a common answer book for all sections.

Section "A" (50 Marks)
(Pathology)

1. Short answer question (any five out of six):
   a) Define atrophy. Discuss the causes with suitable examples.
   b) Discuss the lesions caused by Vitamin C deficiency.
   c) Enumerate various types of emboli. Briefly discuss pulmonary embolism.
   d) Classify Hypersensitivity Reactions. Describe Type-I Hypersensitivity reaction with examples.
   e) Discuss the etiopathogenesis and describe the pathological features of Myasthenia gravis.
   f) Enumerate the types of meningitis. Discuss the gross and microscopic features of Tuberculous meningitis.

2. Long answer question (any one out of two):
   a) Define repair. Describe healing of a wound by primary intention. Enumerate the local and systemic factors that affect wound healing.
   b) Enumerate the disease entities included under the term "chronic obstructive pulmonary disease". Discuss the pathogenesis, types, gross and microscopic features of emphysema.

Section "B" (30 Marks)
(Microbiology)

3. Short answer question (any three out of four):
   a) Biomedical Waste Management.
   b) Describe the structure and laboratory diagnosis of human immunodeficiency virus.
   c) Describe life cycle, pathogenicity and laboratory diagnosis of filariasis.
   d) Describe the laboratory diagnosis of Gas gangrene.

4. Long answer question (any one out of two):
   a) Enlist the Salmonellae causing Enteric Fever. Describe the laboratory diagnosis of Enteric Fever.
   b) Enlist the causative agents of Pyogenic Meningitis. Describe the laboratory diagnosis of Neisseria meningitidis.