PATHOLOGY & MICROBIOLOGY

Total Duration 3 Hours
Total Marks 80

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 answerbook for all Sections.

SECTION - A (50 Marks)
(Pathology)

1. Short answer question (any five out of six):
   [5 x 7 = 35]
   a) Discuss in brief the etiopathogenesis and the morphological features of
      benign peptic ulcer disease.
   b) Discuss the causes and complications of vitamin D deficiency.
   c) Define neoplasia. Enlist the differences between benign and malignant
      tumors.
   d) Briefly discuss the etiopathogenesis and pathological features of rheumatic
      heart disease.
   e) Define meningitis. Enumerate the various organisms causing meningitis.
      Mention the CSF findings in tuberculous meningitis.
   f) Describe briefly primary pulmonary tuberculosis.

2. Long answer question (any one out of two):
   [1 x 15 = 15]
   a) Define thrombosis. Describe etiopathogenesis and pathology of
      thrombosis. Add a note on its complications.
   b) Define and classify osteomyelitis. Describe etiopathogenesis, pathological
      features and complications of pyogenic osteomyelitis.
3. **Short answer question (any three out of four):**  
   [3 \times 5 = 15]  
   a) Mention the differences immediate & delayed hypersensitivity.  
   b) Write a note on autoclave.  
   c) Describe briefly laboratory diagnosis of Typhoid.  
   d) Laboratory diagnosis of HIV infection.

4. **Long answer question (any one out of two):**  
   [1 \times 15 = 15]  
   a) Enumerate the organisms causing sexually transmitted diseases. Describe the laboratory diagnosis of syphilis.  
   b) Enumerate the malarial parasites. Describe the laboratory diagnosis of falciparum malaria.