

**DETAILED SYLLABUS FOR THE POST OF ASSISTANT PROFESSOR IN
PATHOLOGY IN MEDICAL EDUCATION - DIRECT RECRUITMENT**

(Cat.No: 334/2023)

1. General Pathology 20 marks

Cell injury, Cell death and adaptations, Inflammation and repair, Hemodynamic disorders, Genetic disorders, Immunopathology, Neoplasia, Infectious diseases, Environmental and nutritional diseases, Diseases of infancy & childhood

2. Systemic Pathology 20 marks

Cardiovascular, Respiratory, Gastrointestinal, Hepatobiliary, Pancreas, Renal, Male and female genital, Lymphoreticular, Breast, Endocrine, Bone & Joint, Skin, peripheral nerves, Skeletal muscle, Soft tissue, Central nervous systems, Eye

3. Hematology & Laboratory Medicine 20 marks

RBC, WBC, Platelet disorders, hemostatic disorders, techniques in clinical Pathology, anticoagulants, preparation of stains, automated analyzers principle and use, quality control

4. Cytopathology 10 marks

Exfoliative cytology, FNAC, fluid cytology - techniques of smear preparation, staining, interpretation

5. Histopathological techniques 6 marks

All techniques of processing, section cutting, staining including special stains, frozen section, automation methods, museum specimen preparation

6. Autopsy Pathology 5 marks

Techniques of autopsy, interpretation

7. Transfusion Medicine 5marks

Techniques of blood grouping, cross matching, Coombs test, Donor screening, Blood collection, Blood component preparation, Quality control

8. Advanced techniques 4 marks

Immunohistochemistry, Immunofluorescence, Electron microscopy, Flow cytometry, FISH, other molecular techniques

9. Recent advances in Pathology and applied aspects

10 marks

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.

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