Rajasthan Public Service Commission, Ajmer
Syllabus for Screening Test for the post of
Sr. Demonstrator-Pathology
Medical & Health Department

A. General Pathology:
   1. Definition and scope of Pathology.
   3. Disturbances of pigment, Calcium and uric acid metabolism.
   4. Necrosis and gangrene.
   5. Disturbances of circulation i.e. thrombosis, embolism and infarction.
   6. Disturbances of fluid and electrolyte balance pathogenesis of oedema with special reference to cardiac and renal oedema, ascites, transudate and exudate.
   7. Pathology of shock.
   8. Inflammation acute and chronic.
   10. Infective granulomata.
   11. Immuno Pathology including general concept, classification, basis lesions and immuno-diagnostic methods with special reference to AIDS.
   12. Disturbances of growth-atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia, etc.
   14. Hereditary and diseases (including study of genetics.)
   15. Radiation hazards.

B. Systemic Pathology:
   1. Diseases of Cardio- Vascular system.
   2. Diseases of Respiratory system.
   3. Diseases of Stomach, intestines, liver and gall bladder.
   5. Diseases of Spleen and lymphnodes.
   6. Diseases of Nervous system cerebro vascular diseases, meningitis, encephalitis and neoplasm.
   7. Diseases of Skin, Soft tissues, Bones and joints.
   8. Diseases of Thyroid, Pancreas, Adrenals and breast.
C. **Haematology**:
   1. General haematological procedures.
   2. Examination of Bone marrow in health and disease.
   3. Anaemias-general consideration, classification.
   4. Dyshaemopoitic anaemias - Definition, classification, pathogenesis, haematological and bone marrow changes and laboratory diagnosis.
   5. Haemorrhagic disorders details same as above.
   6. Haemolytic anaemias-details same as above.
   7. Leukaemias and myelopreliiferative disorders with Cyto chemistry & IHC markers.
   8. Multiple myeloma and dys prootinaemias.
   9. CBC (Complete Blood Counts) and interpretation.

D. **Clinical Pathology**:
   1. Examination of urine (i.e. complete urine analysis).
   2. Examination of Cere brospinal fluid.
   3. Gastro functions tests
   4. Renal function tests.
   5. **Liver function tests**:
      (a) Based on protein metabolism.
      (b) Based on lipid metabolism including blood cholesterol.
      (c) Based on carbohydrate metabolism-including blood glucose and glucose tolerance test.
      (d) Based on pigment metabolism-including laboratory diagnosis of jaundice.
      (e) Based on detoxifying functions.
   6. Enzymes in clinical diagnosis.
   7. Diagnostic cutaneous tests and other immunopathology tests.
   8. Pregnancy tests.
   9. FNAC, Cytology and sex chroamination evalution.

**Note :- Pattern of Question Paper**
   1. Objective type paper
   2. Maximum Marks :100
   3. Number of Questions :100
   4. Duration of Paper : Two Hours
   5. All questions carry equal marks.
   6. There will be Negative marking.

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