SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH
(A Deemed to be University)
Post Graduate Examination January 2025

Time: 180 Minutes **Max Marks: 100 Marks**

Pathology Paper I
QP CODE: P3041

Your answer should be specific to the question asked
Draw neat labelled diagrams wherever necessary

10X10=100

1. Discuss the aetiopathogenesis and clinico pathological conditions involving apoptosis

2. Discuss the classification, physicochemical nature, pathogenesis and morphology of amyloidosis
3. Classify and discuss role of RNA virus in carcinogenesis
4. Discuss pathogenesis and opportunistic infections in AIDS
5. What are growth factors? Describe signalling mechanisms in cell growth.
6. Describe the mechanism of cell death in ionizing radiation
7. Discuss the etiopathogenesis and morphology of Fat embolism
8. Describe the molecular basis and morphology of Mucoviscidosis
9. Describe the patho-mechanisms of hypercalcemia in malignancy
10. Discuss the role of cyclin and cyclin dependent factors in carcinogenesis

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Pathology Paper II
QP CODE: P3042

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10X10=100

1. Enlist the various blood components and enumerate the indications for their clinical usage.

2. Describe the laboratory approach to male infertility. Add a note on role of cytology in male infertility.
3. Discuss the role of FNAC in the diagnosis of Non-Hodgkin's lymphoma
4. Discuss the advantages and pitfalls in Vaginal cytology
5. Describe Milan's system reporting salivary gland cytology
6. Discuss the role of bone marrow examination in non-haematological conditions

7. Describe the pathogenesis of hereditary spherocytosis and discuss the laboratory investigations in a case of hereditary spherocytosis.
8. Discuss Cytogenetic abnormalities in acute myeloid leukaemia
9. Discuss Gene therapy and its clinical applications.
10. What is FISH? Discuss its role in diagnostic pathology.

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Pathology Paper III
QP CODE: P3043

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10X10=100

1. Discuss the prognostic markers in prostatic carcinoma
2. Describe the etiopathogenesis and pathology of interstitial lung disease
3. Discuss the pathology and laboratory diagnosis of Wegener's granulomatosis
4. Classify pancreatitis. Discuss the etiopathogenesis of acute pancreatitis. Add a note on complications.
5. Discuss tumour markers in pre-operative diagnosis of ovarian neoplasms
6. Classify cystic renal disease. Discuss morphology and molecular genetics of autosomal dominant polycystic kidney disease
7. Discuss the recent updates in pathology of gestational trophoblastic disease
8. Discuss pathogenesis and pathology of fibrocystic disease of breast
9. Describe the etiopathogenesis and pathology of Barrett's oesophagus. Add a note on complications.
10. Discuss classification, pathology and lab diagnosis of tumours of lung

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Pathology Paper IV
QP CODE: P3044

Your answer should be specific to the question asked
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1. Discuss molecular genetics, pathogenesis, gross and microscopic features of Alzheimer's disease
2. Describe the current concepts in MEN syndrome
3. Classify T-cell non-Hodgkin's lymphoma. Describe histomorphology and molecular diagnosis of peripheral T cell lymphoma
4. Discuss etiopathogenesis, gross and microscopic features of Rosai Dorfman disease
5. Discuss about tissue embedding.
6. Discuss the pathology of tumour like lesions of bone.
7. Discuss the premalignant skin lesions.
8. Discuss pathogenesis and laboratory diagnosis of primitive neuroectodermal tumours
9. Classify Diabetes Mellitus. Describe the role of genetics in pathogenesis of Diabetes Mellitus.
10. Discuss the role of special techniques in diagnosis of spindle cell tumours.