

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

*(A DEEMED TO BE UNIVERSITY)*

**Post Graduate Degree Examination - June/July 2020**

**Time : 3 Hrs**

**Max Marks : 100**

**M.D PATHOLOGY**

**Paper- I      QP Code: P3041**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**10 X 10 = 100**

1. Discuss the use of cytokeratins in diagnostic pathology
2. Describe the functions of leucocytes in relation to inflammation. Add a note on clinical conditions associated with leucocyte dysfunctions
3. Discuss the etiopathogenesis and morphology of pulmonary Edema
4. Discuss the etiopathogenesis and morphology of lysosomal storage diseases
5. Describe Natural killer cells in health and disease
6. Discuss the role of HPV in genital cancer
7. What are the modes of metastasis in cancer. Discuss the molecular genetics of metastasis
8. Discuss the role of image analysis in research and diagnostic pathology
9. Describe Viral inclusions in diagnostic pathology
10. Discuss the role of Vitamin D in health and disease

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**Paper- II      QP Code: P3042**

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**LONG ESSAY**

**10 X 10 = 100**

1. Discuss the approach of anemia with elevated MCV and low reticulocytes.
2. Classify and discuss diagnostic features of acute myeloid leukemia
3. What are plasma cell dyscrasias. Discuss the investigation for diagnosis of multiple myeloma
4. Discuss the role of Laboratory investigations in diagnosis of Jaundice
5. Describe the pit falls in the diagnosis of salivary gland cytology
6. Discuss the role of FNAC in the diagnosis of non - neoplastic lung lesions
7. Discuss the role of IHC in diagnosis of soft tissue sarcomas
8. Describe blood substitutes. Add a note on its uses
9. Discuss the recent advances in molecular techniques
10. Discuss utility of electron microscopy in diagnostic pathology

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**Paper- III      QP Code: P3043**

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**LONG ESSAY**

**10 X 10 = 100**

1. Classify vasculitis and describe pathomechanisms of Wegener's granulomatosis.
2. Discuss classification, pathology and lab diagnosis of tumors of lung
3. Classify interstitial pneumonias. Discuss the etiopathogenesis and pathology of usual interstitial pneumonia.
4. Describe the etiopathogenesis and pathology of Barrett's esophagus. Add a note on complications.
5. Discuss the prognostic factors in liver cell carcinoma
6. Define and classify hypertension. Discuss the renal complications in hypertension
7. Discuss the pathology of spindle cell lesions of prostate.
8. Discuss the role of HCG in health & disease
9. Discuss the role of core needle biopsy in proliferative lesions of breast
10. Describe in detail the molecular testing for HPV

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**Paper- IV      QP Code: P3044**

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**LONG ESSAY**

**10 X 10 = 100**

1. Classify CNS tumour. Describe the WHO grading of Gliomas
2. Discuss etiopathogenesis, gross, microscopic features and IHC of medullary carcinoma of thyroid
3. Classify diabetes mellitus and describe pathology of pancreas in diabetes mellitus
4. Discuss the differential diagnosis of giant cell rich tumours of bone
5. Discuss the causes and pathology of massive splenomegaly
6. Discuss the pathology and IHC markers in Pseudolymphomas
7. Classify nevi. Describe in detail spitz nevus.
8. Discuss the pathology of benign neoplasms of adipose tissue
9. Discuss quality control in histopathology
10. Discuss Epithelial mesenchymal transition