

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
**(A DEEMED TO BE UNIVERSITY)**

**M.B.B.S Phase-II Degree Examination JULY 2019**

Time:3 hours

Max Marks:100

**PATHOLOGY- PAPER 1**

*Your answer should be specific to the question asked. Draw neat and labeled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. A 20 year old male patient with a history of on and off fever and matted unilateral rubbery painless lymphadenopathy found to have large binucleate cells with prominent nucleoli in the FNAC smears. What is your diagnosis? How do you classify this disease? Describe the microscopic findings. (2+3+5)
2. List the oncogenic viruses. Describe the mechanism of carcinogenesis by Human Papilloma Virus (3+7)

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Discuss the role of Activate Partial Thromboplastin time (aPTT) in clinical practice
4. What are ketone bodies? Describe the mechanism of formation and discuss their clinical importance (1+2+2)
5. Describe the etiopathogenesis and morphology of Graft versus host disease
6. Describe the mechanisms of cardiac edema
7. Name three classes of endothelial and leucocyte adhesion molecules with subtypes of their ligands.
8. Discuss the mechanism and morphology of Amniotic fluid embolism
9. Describe the etiopathogenesis and morphology of Sudden infant death syndrome
10. Describe the role of Semen analysis in infertility
11. Describe the etiopathogenesis and laboratory diagnosis of G6PD deficiency
12. Discuss the laboratory diagnosis of cancers.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. List THREE causes of Myelophthisic anemia
14. Mention CSF findings in Tuberculous meningitis
15. List SIX complications of obesity
16. Why infarcts in solid organs are triangular?
17. Name cells in chronic inflammation
18. How Bombay blood group differs from O blood group?
19. Name THREE lesions caused by TORCH infections
20. Draw & Label : Microscopy of Granulation Tissue
21. List Three causes for neutropenia
22. List SIX colour codes used for vacuutainer tubes with corresponding additives

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**PATHOLOGY- PAPER 2**

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**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Discuss the etiopathogenesis, morphology and staging of colorectal carcinoma. ( 3+4+3)
2. Describe the etiopathogenesis and pathology of acute pancreatitis. Mention the laboratory tests that will aid in the diagnosis of acute pancreatitis. (2+4+3+1)

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Describe the etiopathogenesis and morphology of Paget's disease of bone.
4. Classify testicular tumours. Describe the morphology of Teratoma of testis
5. Describe the etiopathogenesis and morphology of Fibroadenoma
6. Describe the etiopathogenesis and morphology of Grave's disease
7. Define emphysema and describe the morphology of different types.
8. Describe the etiopathogenesis of bronchogenic carcinoma
9. Describe the etiopathogenesis and morphology of Buerger's disease
10. Describe the types, pathology and complications of Pericarditis
11. Describe the etiopathogenesis and morphology of Lung abscess
12. Describe morphology and Complications of cholelithiasis

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. What is Codman triangle? List two conditions where it is seen
14. Mention THREE complication of benign prostatic hyperplasia
15. List THREE morphological features of Chocolate cyst of ovary
16. Write the classification of diabetes mellitus
17. What is Autoimmune gastritis?
18. Name FOUR chronic fibrosing interstitial lung diseases
19. List THREE causes for aortic aneurysm
20. Mention THREE types of leiomyoma
21. Describe the morphology of Pyogenic granuloma
22. Describe the morphology of Aschoff nodule

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**PATHOLOGY- PAPER 1**

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**LONG ESSAY ( Answer any 2 )**

**2 X 10 = 20 Marks**

1. 4 year old child with a history of upper respiratory tract infection developed petichiae and found to have a LOW platelet count normal hemoglobin and leucocyte count. What is the probable diagnosis? List the causes for thrombocytopenia. Give the bone marrow findings with a neat diagram in this case. (2+4+4)
2. Classify tumors. Discuss the mechanisms and pathways of spread of tumors. (4+6)
3. What are the criteria for the diagnosis of Diabetes mellitus? Discuss the laboratory investigations in a case of suspected Diabetes mellitus (3+7)

**SHORT ESSAY ( Answer any 10 )**

**10 X 5 = 50 Marks**

4. Describe the laboratory diagnosis of AML-M3 (Acute Promyelocytic Leukemia)
5. Describe the etiopathogenesis and morphology of Primary Tuberculosis
6. Enumerate the components of Virchow's triad. Discuss the role of any one of them in thrombogenesis
7. Discuss the role of Phagocytosis in health and disease
8. Describe FIVE common biochemical markers of cell death with suitable examples
9. Describe the etiopathogenesis and morphology of Graft versus host disease
10. Write WHO classification of lymphomas
11. Describe the Criterias for selecting a healthy blood donor
12. Describe Role of Macrophage in Chronic Inflammation
13. Discuss the Utility of Frozen section in patient management
14. Describe the mechanisms of cardiac edema
15. Discuss the role of Chemical mediators in inflammation

**SHORT ANSWERS ( No choices )**

**10 X 3 = 30 Marks**

16. Draw a diagram of Peripheral blood picture in megaloblastic anemia
17. Write THREE complications of Lead toxicity
18. What are Telomeres and what is their function?
19. What are the components of Callus ?
20. What is the role of promoter in carcinogenesis?
21. Write malignant counterparts of: Ganglioneuroma, Schwannoma and Hemangioma
22. What are the urine sediment findings in acute glomerulonephritis?
23. What is Grading and staging of tumors
24. List THREE features of Polycythemia vera
25. List THREE casues for Hydrops fetalis

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**PATHOLOGY- PAPER 2**

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**LONG ESSAY ( Answer any 2 )**

**2 X 10 = 20 Marks**

1. Discuss the etiopathogenesis, morphology, clinical features and complications of peptic ulcer.  
(3+4+1+2)
2. What is atherosclerosis? Discuss etiopathogenesis, morphology and complications of Atherosclerosis  
(1+4+3+2)
3. Describe the etiopathogenesis, pathology, laboratory investigations and complications of rheumatoid arthritis. (3+3+3+1)

**SHORT ESSAY ( Answer any 10 )**

**10 X 5 = 50 Marks**

4. Classify testicular tumors and describe the morphology of Seminoma
5. Classify breast tumours. Describe the morphology of medullary carcinoma of breast
6. Describe Renal changes in Diabetes Mellitus
7. Describe the etiopathogenesis and morphology of Chronic active hepatitis (Interface hepatitis)
8. Describe the etiopathogenesis and morphology of primary Tuberculosis of Lung
9. Describe the etiopathogenesis and morphology of Giant cell arteritis
10. Define pneumoconiosis and describe the pathogenesis and morphology of silicosis
11. Describe the Etiology and morphology of hepatocellular carcinoma
12. Describe the etiopathogenesis and morphology of Grave's disease
13. Describe the etiopathogenesis and morphology of Viral encephalitis
14. Describe the etiopathogenesis and morphology of Wilm tumor
15. Describe the etiopathogenesis of precancerous lesions of oral cavity and describe morphology of any one of them.

**SHORT ANSWERS ( No choices )**

**10 X 3 = 30 Marks**

16. Describe the gross appearance of kidney in Autosomal recessive polycystic kidney disease (ARPKD)
17. Mention THREE types of leiomyoma
18. Morphological features of pheochromocytoma
19. Mention the THREE clinical manifestations of portal hypertension
20. Define and classify emphysema
21. List THREE causes for aortic aneurysm
22. List THREE morphological features of Chocolate cyst of ovary
23. Describe the any one staging system of colorectal carcinoma
24. Mention THREE causes of acute renal failure
25. List the components of tetralogy of Fallot