

# **SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH**

**M B B S Phase II Examinations, March 2024**

**Time: 180 Minutes**

**Max Marks: 80 Marks**

## **Pathology PI QP CODE: C2041**

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

### **Long Essay $10 \times 2 = 20$ Marks**

1. Classify chemical carcinogens. Describe the mechanism of chemical carcinogenesis (3+7)
2. 65 year old male patient with painless generalized lymphadenopathy of a few years duration otherwise asymptomatic was found to have a total leucocyte count of 50,000 cells/cumm with predominance of lymphocytes. His platelet count was normal. What is the probable diagnosis? Discuss the blood and bone marrow findings in this case.(2+8)

### **Short Essay $5 \times 12 = 60$ Marks**

3. Discuss the role of Phagocytosis in health and disease
4. Discuss Vitamin A deficiency
5. Mention Membrane defects in RBCs. Add a note on Hereditary spherocytosis
6. What are Telomeres and what is their function in ageing and cancer? (1+2+2)
7. List out the blood components prepared in Blood Bank. Mention the indications of any one of them (2+3)
8. Describe the etiopathogenesis and morphology of amyloidosis (2+3)
9. Describe role of macrophage in chronic inflammation
10. What is the mechanism behind the nutmeg appearance of liver in chronic venous congestion
11. What are Paraneoplastic syndromes? Discuss their pathogenesis.
12. Define patient autonomy and contrast it with paternalism
13. Describe the etiopathogenesis and clinical features of Klinefelter's syndrome (2+3)
14. Enumerate the causes of thrombocytopenia. Describe the clinical features, investigations and prognosis of idiopathic thrombocytopenic purpura.

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### **Long Essay $10 \times 2 = 20$ Marks**

1. Describe the pathophysiology and pathology in hepatic failure. Write in brief the clinical manifestations, complications and consequences of hepatic failure. (3+2+1+2+2)
2. 58 yrs male chronic smoker. C/O Retrosternal chest pain associated with sweating. Pain was radiating to along the ulnar border of left hand. What is your diagnosis? Discuss etiopathogenesis, pathology and complications of disease. (2+3+3+2)

### **Short Essay $5 \times 12 = 60$ Marks**

3. Describe the etiopathogenesis and morphology of esophageal carcinoma (2+3)
4. Describe the role of H.pylori in gastric carcinoma and list the other malignant tumours caused by H.pylori
5. Describe the morphology and complications of Peutz-Jeghers syndrome (3+2)
6. Describe the Morphology of different stages of lobar pneumonia.
7. Define emphysema. Describe the morphology of different types of Emphysema. (1+4)
8. Describe the etiopathogenesis and morphology of bronchogenic carcinoma
9. What is Benign nephrosclerosis? Describe the morphology.
10. Classify testicular tumors and describe the morphology of Seminoma (2+3)
11. Describe the etiopathogenesis and morphology of carcinoma of cervix (2+3)
12. Classify breast carcinoma. Describe the morphology of Lobular carcinoma of the breast (2+3)
13. Mention THREE causes of hypercalcemia. Briefly explain its pathophysiology
14. Classify bone tumors. Describe the morphology of Ewing sarcoma.

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**(A DEEMED TO BE UNIVERSITY)**

**M.B.B.S Phase-II Degree examination, March 2024**

**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. Discuss laboratory approach to CSF analysis in a suspected case of meningitis
2. Define pernicious anemia. Discuss the blood and bone marrow findings in megaloblastic anemias.(2+3+5)

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Mention THREE X linked disorders. Write in detail about one disorder.
4. Describe the etiopathogenesis and complications of hemolytic transfusion reaction
5. What is transcelomic spread of tumors. Give TWO examples for transcelomic spread of malignant tumors
6. Describe the etiopathogenesis and laboratory diagnosis of DIC (Disseminated intravascular coagulation)
7. Describe the etiopathogenesis and morphology of Pathologic Calcification
8. Describe the mechanism of Type-III hypersensitivity reaction with an example
9. Define chemotaxis and discuss the mechanism of Chemotaxis
10. Describe the mechanisms of Renal edema
11. Describe etiopathogenesis of morphology of Secondary Tuberculosis
12. Discuss the differences between Pyogenic and Tuberculous meningitis.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. Name TWO haemoprotein derived pigments and the conditions where it is seen
14. List SIX Tumor markers
15. List THREE causes of Lymphadenopathy in HIV patients
16. List SIX childhood tumors
17. List THREE parasites seen in bone marrow aspirates
18. Mention three conditions where Angiogenesis plays a role in disease process
19. Draw a neat diagram of a epithelioid granuloma
20. List THREE transfusion reactions
21. Name THREE trisomies
22. List the sites and microscopic features of Syphilitic gumma

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**M.B.B.S Phase-II Degree examination, March 2024**

**Time:3 hours**

**Max Marks:100**

**PATHOLOGY- PAPER 2**

*Your answer should be specific to the question asked  
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**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Define atheroma. Discuss etiopathogenesis, morphology and complications of atheroma. (1+4+3+2)
2. Define, classify and discuss the complications of cirrhosis. Mention the causes of death in cirrhosis. (2+3+3+2)

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Describe the etiopathogenesis and morphology of Hashimoto thyroiditis
4. Describe the etiopathogenesis and various types of gall stones
5. Describe the etiopathogenesis and morphology of acute tubular necrosis
6. Discuss the Complications of infective endocarditis
7. Describe the etiopathogenesis and morphology of pancreatic carcinoma.
8. Describe the etiopathogenesis and morphology of Von Recklinghausen's disease
9. Classify bone tumors. Describe the morphology of Osteosarcoma
10. Describe the etiopathogenesis and morphology of Carcinoma of the penis
11. Describe the etiopathogenesis and morphology of Endometriosis
12. Discuss the molecular basis and microscopy of muscle in Duchenne Muscular Dystrophy (2+3)

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. What is the composition and organism associated with Staghorn calculus
14. List SIX risk factors of carcinoma cervix
15. Describe the role of H.pylori in gastric carcinoma
16. List THREE microscopic features of Retinoblastoma
17. Enlist the symptoms of carcinoid syndrome
18. List THREE Indications for lumbar puncture
19. Mention THREE important etiologies of Addison disease
20. Mention THREE adnexal tumors of skin
21. List germ cell tumours of testis
22. List three causes for micronodular cirrhosis