

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-II Degree Examination JAN 2020

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. Classify anemias. Describe the blood and urinary findings in hemolytic anemia (3+3+2+2)
2. Define neoplasm. Describe the the clinical, gross and microscopic features of malignant neoplasm (1+3+3+3)

SHORT ESSAY

10 X 5 = 50 Marks

3. Describe the pathogenesis of CML. Add a note on blood and bone marrow findings.
4. Describe the role of renal function tests in clinical practice
5. Describe the methods of Karyotyping and its utility in clinical practice
6. Discuss the mechanism and morphology of Fat embolism
7. Define chemotaxis and discuss the mechanism of Chemotaxis
8. Describe the etiopathogenesis and morphology of Caseous Necrosis
9. Describe the etiopathogenesis and morphology of Lepromatous Leprosy
10. Discuss the role of Fluid cytology in clinical practice
11. Describe the etiopathogenesis and laboratory diagnosis of Christmas disease
12. Describe effect of tumor on host.

SHORT ANSWERS

10 X 3 = 30 Marks

13. List THREE causes of Myelophthitic anemia
14. What are the urine sediment findings in acute pyelonephritis?
15. What is Aspergilloma ?
16. What is the mechanism behind the nutmeg appearance of liver in chronic venous congestion
17. Mention the components of Granulation tissue
18. Name THREE methods of harvesting platelets from blood donors
19. Draw microscopy of Molluscum Bodies
20. List THREE Acute Phase reactants
21. Enumerate 3 causes for splenomegaly.
22. List THREE parasites seen in bone marrow aspirates

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PATHOLOGY- PAPER 2

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

2 X 10 = 20 Marks

1. Discuss the etiopathogenesis, morphology, spread and clinical features of gastric carcinoma. (3+4+2+1)
2. Define and classify pneumoconiosis. Discuss the pathology and complications of asbestosis. (3+3+4)

SHORT ESSAY

10 X 5 = 50 Marks

3. Enumerate osteogenic tumors and describe the gross and microscopy of osteosarcoma
4. Describe the etiopathogenesis and morphology of acute tubular necrosis
5. Describe the morphology of Lobular carcinoma of the breast and add a note on the special features of lobular carcinoma.
6. Describe the etiopathogenesis and morphology of Medullary carcinoma of thyroid
7. Classify cirrhosis of liver. Discuss the morphology of alcoholic cirrhosis.
8. Describe the etiopathogenesis and morphology of bronchial asthma.
9. Describe the etiopathogenesis and morphology of Aschoff nodule
10. Describe the etiopathogenesis and morphology of Kaposi sarcoma
11. Describe the etiopathogenesis and morphology of Hyaline membrane disease
12. Describe the etiopathogenesis and morphology of Haemochromatosis

SHORT ANSWERS

10 X 3 = 30 Marks

13. List THREE complications of pyogenic osteomyelitis
14. List germ cell tumours of testis
15. List SIX risk factors of carcinoma cervix
16. What are the diagnostic criteria of diabetes mellitus
17. List the THREE types of gall stones
18. Enlist the symptoms of carcinoid syndrome
19. Draw a neat diagram of Atheromatous plaque
20. Draw and label the microscopic picture of acute appendicitis
21. What is Barrett's oesophagus? What are its complications?
22. Mention SIX features of nephrotic syndrome

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PATHOLOGY- PAPER 1

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LONG ESSAY (Answer any 2)

2 X 10 = 20 Marks

1. Enumerate the causes of thrombocytopenia. Give an account of idiopathic thrombocytopenic purpura. (4+6)
2. Discuss the difference between benign and malignant tumors. Mention the routes of spread of tumors. Add a note on laboratory diagnosis of cancers. (5+2+3)
3. Enumerate the causes for glycosuria. 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 etiopathogenesis and laboratory diagnosis of von Willebrand's disease
5. What is genomic imprinting and explain with an example.
6. Define autophagy, describe the types with two examples each (1+3+1)
7. Describe the morphology of wound healing by second intention
8. Describe the mechanism of Necroptosis
9. Describe the pathogenesis and morphology of Hydatid disease
10. Describe the etiopathogenesis and morphology of Mycosis fungoides
11. Describe the pathogenesis of Rh incompatibility and add a note on hydrops fetalis
12. Define chemotaxis and discuss the mechanism of Chemotaxis
13. Discuss the role of Fluid cytology in clinical practice
14. Discuss the pathogenesis of septic shock
15. Describe the role of Cytokines in inflammation.

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Name THREE causes of Myeloid leukemoid reaction
17. What is Robertsonian translocation?
18. What is the mechanism behind the nutmeg appearance of liver in chronic venous congestion
19. Define & Classify Granuloma
20. Enumerate the peripheral blood smear findings in myelofibrosis
21. Name THREE tumor suppressor genes involved in malignancy
22. How Proteus infection facilitate the formation of staghorn calculus ?
23. A patient suffering from cancer showed osteosclerotic deposits in vertebra and ribs. What are the possible sites for the primary tumor?
24. An 10 year old male complains of pain in the right upper abdomen. USG abdomen showed multiple gall stones and absence of spleen. Give the hematological diagnosis?
25. Name THREE genetic disorders with multifactorial inheritance

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PATHOLOGY- PAPER 2

*Your answer should be specific to the question asked
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LONG ESSAY (Answer any 2)

2 X 10 = 20 Marks

1. Discuss the etiopathogenesis, morphology, spread and clinical features of gastric carcinoma. (3+4+2+1)
2. Classify thyroid tumors. Discuss the etiopathogenesis and pathology of follicular carcinoma of thyroid (3+3+4)
3. Classify bone tumors and describe morphology of osteosarcoma (4+6)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Classify testicular tumors and describe the morphology of Yolk sac tumour
5. Describe the genetics basis of molar pregnancy
6. Classify and describe morphology of MEN syndromes
7. Describe the etiopathogenesis of Acute pancreatitis
8. List FOUR causes of ARDS (Acute respiratory distress syndrome) and discuss pathogenesis of ARDS
9. Describe the etiopathogenesis and morphology of Kaposi sarcoma
10. Describe the etiopathogenesis and morphology of bronchial asthma.
11. Discuss the differential diagnosis of Brain abscess
12. Discuss the pathogenesis of Type-I Diabetes Mellitus
13. Describe the morphology of Paget disease of the breast
14. Describe the etiopathogenesis and morphology of Benign prostatic hyperplasia
15. Describe the Etiopathogenesis of colorectal carcinoma

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. List THREE diseases associated with Immune complex vasculitis
17. List SIX risk factors of carcinoma cervix
18. List SIX features of nephrotic syndrome
19. Mention the THREE clinical manifestations of portal hypertension
20. List SIX Difference between lobar and bronchopneumonia.
21. What are cardiac vegetations? Mention the types
22. What is Benign nephrosclerosis?
23. What is Barrett's oesophagus? What are its complications?
24. Mention SIX complications of atheroma
25. Mention SIX salivary gland tumors