

SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-II Degree examination JUNE 2023

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. Enumerate liver enzymes and discuss their significance in clinical practice (3+7)
2. Enumerate the components of Virchow's triad. Discuss their role in thrombogenesis

SHORT ESSAY

10 X 5 = 50 Marks

3. Define Leukemoid reaction. Enumerate the various causes. How do you differentiate it from leukemia?
4. Describe role of growth factors in Regeneration
5. Describe the role of renal function tests in clinical practice
6. Describe etiopathogenesis of morphology of Secondary Tuberculosis
7. Define autophagy, describe the types with two examples each (1+3+1)
8. List SIX autosomal dominant disorders and discuss any one of them
9. Describe the etiopathogenesis and complications of hemolytic transfusion reaction
10. Describe the morphology of Vitamin A deficiency
11. Describe the differences between benign and malignant tumors.
12. Describe the mechanisms of Renal edema

SHORT ANSWERS

10 X 3 = 30 Marks

13. Name THREE long term complications in Down's syndrome
14. List THREE screening tests done for blood donors
15. Explain the mechanism of radiation induced apoptosis
16. List THREE important features of hemolytic disease of new born due to ABO incompatibility
17. Write the microscopic feature of Rhinosporidiosis with a labelled diagram.
18. What is the mechanism behind the nutmeg appearance of liver in chronic venous congestion
19. What is the composition of Granuloma
20. List THREE complications of ionizing Radiation
21. List THREE conditions associated with RB gene deletion
22. List THREE parasites seen in bone marrow aspirates

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PATHOLOGY- PAPER 2

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LONG ESSAY

2 X 10 = 20 Marks

1. Classify testicular tumours. Describe the etiopathogenesis, histopathological features and morphology of seminoma. (3+4+3)
2. A 70 year old man presents with 3 month history of bleeding per rectum along with weakness, fatigue, weight loss and anemia. Examination does not reveal any hemorrhoids or fissure. What is the most likely diagnosis? Discuss the etiopathogenesis, morphology and prognosis of this condition. (1+3+4+2)

SHORT ESSAY

10 X 5 = 50 Marks

3. Describe the etiopathogenesis and morphology of Pituitary adenoma
4. Describe the etiopathogenesis and morphology of Carcinoma of the penis
5. Discuss the molecular basis and microscopy of muscle in Duchenne Muscular Dystrophy (2+3)
6. Classify surface epithelial tumor of the ovary and describe the morphology of Brenner's tumor.
7. Describe the morphology of Neuroblastoma
8. Classify bone tumors. Describe the morphology of Osteosarcoma
9. Describe the etiopathogenesis and morphology of Biliary cirrhosis
10. Describe the morphology of Lobular carcinoma of the breast and add a note on the special features of lobular carcinoma.
11. Describe the morphology of Renal cell carcinoma
12. Describe the etiopathogenesis lobar pneumonia.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Mention THREE sequelae of chronic pancreatitis
14. List THREE causes for malabsorption
15. Draw a neat diagram of Atheromatous plaque
16. List the THREE etiological agents of squamous cell carcinoma
17. Name the spectrum of lesions of coal worker's pneumoconiosis
18. Describe the morphology of Ewing sarcoma
19. Mention THREE important etiologies of Addison disease
20. List THREE causes for bacterial meningitis
21. List germ cell tumors of ovary
22. List SIX risk factors for carcinoma of breast

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PATHOLOGY- PAPER 1

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LONG ESSAY (Answer any 2)

2 X 10 = 20 Marks

1. What are carcinogens? Mention the types of carcinogens. Discuss the role of viruses in carcinogenesis. (2+3+5)
2. 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)
3. Define and classify Shock. Describe the pathogenesis of septic shock (1+3+6)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Write differences between initiators and promoters of carcinogenesis
5. Discuss Endogenous pigment in health and disease
6. Discuss the laboratory investigations in a case of multiple myeloma
7. Describe the etiopathogenesis and clinical features of Klinefelter's syndrome (2+3)
8. List primary immunodeficiency diseases and discuss Di George syndrome
9. Define chemotaxis and discuss the mechanism of Chemotaxis
10. Discuss the mechanism and morphology of Fat embolism
11. Discuss the differences between Pyogenic and Tuberculous meningitis.
12. Discuss the genetics of Bombay blood group
13. Describe the morphology of Vitamin A deficiency
14. Describe the etiopathogenesis and morphology of Hyaline membrane disease
15. Describe etiopathogenesis of morphology of Secondary Tuberculosis

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. List THREE differences between cardiac and renal edema
17. Name THREE antioxidants that prevent free radical injury
18. Mention two enzymes elevated in biliary obstruction?
19. Mention the complications of acute inflammation
20. List THREE transfusion reactions
21. List THREE tumours metastasizing to Bone
22. Draw and label - Microscopic features of Lepromatous Leprosy
23. Name THREE autosomal dominant diseases
24. Draw a neat diagram of a epithelioid granuloma
25. What is bcr / abl fusion gene?. Where it is seen?

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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, pathology and complications of carcinoma cervix. (4+4+2)
2. Discuss the etiopathogenesis, morphology, spread and clinical features of gastric carcinoma. (3+4+2+1)
3. Describe etiopathogenesis of Hepatocellular carcinoma. Mention the laboratory diagnostic tests for Hepatocellular carcinoma. (6+4)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Describe the etiopathogenesis and morphology of Hyperparathyroidism
5. Define Non-alcoholic fatty Liver Disease (NAFLD). Mention the criteria for metabolic syndrome and write the microscopic features of liver in NAFLD (1+3+1)
6. Describe the etiopathogenesis and morphology of Endometrial hyperplasia
7. Describe pathology of Parkinson Disease
8. Discuss the molecular basis and microscopy of muscle in Duchenne Muscular Dystrophy (2+3)
9. Describe the etiopathogenesis and morphology of Kaposi sarcoma
10. Describe the etiopathogenesis and morphology of Acute appendicitis
11. Describe the etiopathogenesis and morphology of Retinoblastoma
12. Describe the growth patterns and morphology of malignant melanoma
13. Describe the morphology of Primary cardiomyopathy
14. Classify breast tumours. Describe the morphology of Scirrhus carcinoma breast
15. Classify lung tumors. Describe the morphology of Carcinoid tumor of the lung.

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. What are the diagnostic criteria of diabetes mellitus
17. List germ cell tumors of ovary
18. List THREE ulcerative lesions of large intestine
19. Describe the histology of Myositis ossificans
20. Microscopy of squamous cell carcinoma of skin
21. Mention FOUR metabolic causes of acute pancreatitis
22. List the different types of astrocytoma
23. What is the composition and organism associated with Staghorn calculus
24. What are cardiac vegetations? Mention the types
25. List three causes for micronodular cirrhosis