

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

MBBS Phase II Examination February 2021

Time: 180 Minutes

Marks: 100

Pathology Paper 1

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

Long Essay

10 × 2 = 20 Marks

1. 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)
2. Discuss iron metabolism. Describe the peripheral blood findings in iron deficiency anemia. (5+5)

Short Essay

5 × 10 = 50 Marks

3. Discuss the role of chemical mediators in inflammation.
4. Describe the morphology of Wound healing by first intention.
5. Define glycogen storage disorders. Write four examples with enzyme deficiency in each type. (1+4)
6. Describe the etiopathogenesis and morphology of Type-I hypersensitivity reaction. (3+2)
7. Describe the mechanism of Chemical carcinogenesis.
8. Describe the etiopathogenesis and morphology of Lepromatous Leprosy. (2+3)
9. Discuss the utility of Frozen section in patient management.
10. Discuss Semen analysis and its application in Male infertility. (3+2)
11. Describe the etiopathogenesis of Rh incompatibility and add a note on hydrops fetalis. (3+2)
12. Discuss liver function test in a case of Jaundice.

Short Answer

3 × 10 = 30 Marks

13. Describe Hyperplasia in health and disease.
14. List three Genes that regulate Apoptosis.
15. List THREE causes of fatty change of heart.
16. Name THREE X-linked diseases.
17. List THREE Romanowsky stains.
18. List THREE uses of PCV.
19. List THREE Indications for bone marrow aspiration.
20. Mention the Bone marrow picture in megaloblastic anemia.
21. List six causes for eosinophilia.
22. What is Bence Jones protein?



Question Paper Code: U2042

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Pathology Paper 2

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Long Essay

10 × 2 = 20 Marks

1. What is an aneurysm? Describe etiopathogenesis, morphology and complications of aneurysm. (1+4+3+2)
2. Discuss the etiopathogenesis of inflammatory bowel disease (IBD). Describe the morphology, clinical features and complications of Crohn's disease. (2+5+1+2)

Short Essay

5 × 10 = 50 Marks

3. Describe the etiopathogenesis and morphology of Atelectasis. (3+2)
4. Classify salivary gland tumors and describe the morphology of Pleomorphic adenoma. (3+2)
5. Describe the etiopathogenesis and morphology of Chronic active hepatitis. (Interface hepatitis) (3+2)
6. Describe the etiopathogenesis and morphology of infective endocarditis. (3+2)
7. Describe the morphology of Focal segmental glomerulosclerosis. (FSGS)
8. Classify testicular tumours. Describe the morphology of Teratoma of testis. (3+2)
9. Enumerate the germ cell tumors of the ovary and describe the morphology of dysgerminoma of ovary. (3+2)
10. Describe the gross and microscopy of papillary carcinoma of thyroid. (2+3)
11. Describe the etiopathogenesis and morphology of cervical carcinoma. (3+2)
12. Enumerate chondrogenic tumors and describe the morphology of chondrosarcoma. (3+2)

Short Answer

3 × 10 = 30 Marks

13. List THREE morphological types of bronchiectasis.
14. List the components of Caplan syndrome.
15. Mention THREE types of Leiomyoma.
16. Name THREE genes associated with breast carcinoma.
17. Describe the microscopy of basal cell carcinoma.
18. Describe the morphology of Bowen's disease.
19. Describe the microscopy of Chronic pyelonephritis.
20. What is Codman's triangle? List two conditions where it is seen.
21. What is Brodie abscess?
22. Mention THREE histologic types of meningioma.



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Long Essay (Answer any two)

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1. Classify tumors. Discuss the mechanisms and pathways of spread of tumors. (4+6)
2. Define anemia. Classify hemolytic anemias. Describe the etiopathogenesis and laboratory diagnosis of hereditary spherocytosis. (2+3+3+2)
3. Define and classify leukemias. Describe the etiopathogenesis and laboratory investigations in acute myeloid leukemia (1+2+3+4)

Short Essay (Answer any ten)

5 × 10 = 50 Marks

4. Describe the etiopathogenesis and morphology of Graft rejection. (3+2)
5. Describe the role of Tumor markers in the diagnosis and management of cancer patients.
6. Describe the pathogenesis and morphology of Hydatid disease. (2+3)
7. Describe the etiopathogenesis and morphology of Hyaline membrane disease. (3+2)
8. Describe the etiopathogenesis and morphology of Sickle cell crisis. (3+2)
9. Discuss the laboratory investigations in a case of multiple myeloma.
10. Discuss thyroid function tests and its application in clinical practice. (3+2)
11. Discuss the utility of Frozen section in patient management.
12. Discuss of Semen analysis and its application in Male infertility. (3+2)
13. Discuss the differences between Pyogenic and Tuberculous meningitis.
14. Describe the etiopathogenesis of Rh incompatibility and add a note on hydrops fetalis. (3+2)
15. Describe the etiopathogenesis and clinical features of Down's syndrome. (2+3)

Short Answer (Answer all)

3 × 10 = 30 Marks

16. Mention SIX Causes of cell injury.
17. List THREE Antioxidants.
18. List THREE causes for fatty change in heart.
19. List THREE causes of Metastatic calcification.
20. Mention THREE differences between necrosis and Apoptosis.
21. List SIX Exogenous pigments.
22. List the Cardinal Signs of Inflammation.
23. List the differences between TxA₂ and PGI₂.
24. Write the microscopy of Granulation Tissue with a labelled diagram.
25. Name THREE cell cycle regulators.



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Pathology Paper 2

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Long Essay (Answer any two)

10 × 2 = 20 Marks

1. Discuss the etiopathogenesis of inflammatory bowel disease (IBD). Describe the morphology, clinical features and complications of Crohn's disease. (2+5+1+2)
2. Discuss the etiopathogenesis, morphology and clinical course of chronic pyelonephritis. (4+4+2)
3. Define diabetes mellitus. Discuss the etiopathogenesis and laboratory diagnosis of diabetes mellitus. (2+5+3)

Short Essay (Answer any ten)

5 × 10 = 50 Marks

4. Describe the etiopathogenesis and morphology of primary Tuberculosis of Lung. (3+2)
5. Classify salivary gland tumors and describe the morphology of Pleomorphic adenoma. (2+3)
6. Describe the etiopathogenesis and morphology of Haemochromatosis. (3+2)
7. Describe the etiopathogenesis and morphology of Benign prostatic hyperplasia. (3+2)
8. Classify testicular tumors. Write a note on seminoma. (3+2)
9. List masculinizing tumours of ovary and describe the morphology of any one. (2+3)
10. Classify breast tumours. Describe the morphology of Scirrhus carcinoma breast. (3+2)
11. Discuss etiopathogenesis and morphology of Hashimoto's thyroiditis. (2+3)
12. Mention skin tumors. Describe the morphology of melanoma. (2+3)
13. Enumerate chondrogenic tumors and describe the morphology of chondrosarcoma. (2+3)
14. Describe the etiopathogenesis of Rheumatic heart disease.
15. Describe the morphology of Medulloblastoma.

Short Answer (Answer all)

3 × 10 = 30 Marks

16. List SIX major risk factors for atherosclerosis.
17. What is Mycotic aneurysm? Give two conditions associated with it.
18. Mention three complications of infective endocarditis.
19. Mention the types of cardiomyopathy.
20. Define and classify emphysema.
21. List THREE Difference between lobar and bronchopneumonia.
22. Define peptic ulcer. Mention three common sites of its occurrence.
23. Mention the THREE clinical manifestations of portal hypertension.
24. List the THREE types of gall stones.
25. List SIX risk factors of carcinoma cervix.

