

Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Degree Examination (Medical Faculty) July-2020

Paper Code-20AM0114100051

Subject- Pathology

Paper-I

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Discuss recent concepts of carcinogenesis and role of oncogenes.
- b. Differential diagnosis of granulomatous diseases and histopathological assessment of granulomas.
- c. Discuss classification, chemical nature, pathogenesis and clinical syndrome of amyloidosis.

2. Write in Brief (Any Six)

6X 10 = 60

- a. Laboratory diagnosis of HIV infection.
- b. Discuss pathology of chronic passive congestion.
- c. Mechanism of spread of tumors.
- d. Factors affecting wound healing.
- e. Mechanism of cell death in case of ionizing radiation.
- f. The Bethesda system for reporting cervical cytology.
- g. Flow cytometry.
- h. Role of free radicals in cell injury.

Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Diploma Examination (Medical Faculty) July-2020

Paper Code-20AM0124100511

Subject- DCP

Paper-I

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper- such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Describe Molecular basis of Cancer.
- b. Define Shock. Discuss pathogenesis of septic shock.
- c. Discuss role of Complement system in Inflammation

2. Write in Brief (Any Six)

6X 10 = 60

- a. Describe numerical abnormalities of chromosomes with their related disorders.
- b. Role of PCR in diagnostic laboratory.
- c. Describe the methods of diagnosis of typhoid fever.
- d. Define hypersensitivity reactions. Write detail on Type IV hypersensitivity reaction.
- e. Discuss Cytochemical stains in diagnosis of neoplastic lesions.
- f. Discuss systemic effects of inflammation.
- g. Viral carcinogenesis
- h. SARS-CoV-2 infection.

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Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Degree Examination (Medical Faculty) July-2020

Paper Code-20AM0114100052

Subject- Pathology

Paper-II

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper-such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Classify Glomerulonephritis. Discuss etiopathogenesis and laboratory diagnosis of Acute Proliferative (Poststreptococcal) Glomerulonephritis.
- b. Discuss etiopathogenesis, morphology and complications of lung Carcinoma.
- c. Discuss Crohn disease.

2. Write in Brief (Any Six)

6X 10 = 60

- a. Infective endocarditis.
- b. Endometrial hyperplasia.
- c. Laboratory diagnosis of Viral Hepatitis B.
- d. Atheroma.
- e. Giant cell lesions of the bone.
- f. Diabetic Nephropathy.
- g. Gastric Ulcer.
- h. Miliary Tuberculosis.

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Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Diploma Examination (Medical Faculty) July-2020

Paper Code-20AM0124100512

Subject-Pathology (DCP)

Paper-II

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper- such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Discuss the fine needle aspiration cytology (FNAC) finding in evaluation of breast lesions.
- b. Classify Lung tumors. Write in detail on Bronchogenic carcinoma.
- c. Define Nephritic syndrome. Discuss etiopathogenesis of Rapidly Progressive Glomerulonephritis (RPGN).

2. Write in Brief (Any Six)

6X 10 = 60

- a. Laboratory diagnosis of Jaundice.
- b. Classify germ cell tumor of testis. Discuss teratoma in detail.
- c. Predictive and Prognostic markers of breast carcinoma.
- d. Serological markers of hepatitis B.
- e. Etiopathogenesis and morphology of Choriocarcinoma.
- f. Liquid based cytology.
- g. Histological grading of Prostatic Carcinoma.
- h. Etiopathogenesis of Acute Pancreatitis.

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Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Degree Examination (Medical Faculty) July-2020

Paper Code-20AM0114100053

Subject- Pathology

Paper-III

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper- such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Classification Immunophenotyping and cytogenetics of acute leukemia. Describe morphology of each type.
- b. Describe classification of anemias. Discuss morphological features and laboratory diagnosis of anemia with elevated MCV and low reticulocytes.
- c. What are plasma cell dyscrasias. Discuss investigations for diagnosis of multiple myeloma.

2. Write in Brief (Any Six)

6X 10 = 60

- a. Transfusion transmitted diseases.
- b. Disseminated intravascular coagulation (DIC)
- c. Discuss investigations for mismatched blood transfusion.
- d. Define quality control and quality assurance. Discuss internal and external quality control programmes with specific references to hematology.
- e. Hairy cell leukemia.
- f. Bone marrow Aspiration and its role in diagnosis of various diseases.
- g. Von willebrand disease.
- h. Discuss Myelodysplastic syndrome.

Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Diploma Examination (Medical Faculty) July-2020

Paper Code-20AM0124100513

Subject- Pathology (DCP)

Paper-III

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper- such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Discuss role of Flow cytometry in diagnosis of acute leukemias.
- b. Discuss etiopathogenesis and morphological features of DIC.
- c. Discuss etiopathogenesis and laboratory findings of Iron deficiency anaemia.

2. Write in Brief (Any Six)

6X 10 = 60

- a. Erythroblastosis fetalis.
- b. Different types of Blood components and their uses.
- c. Von Willebrand disease.
- d. ABO blood grouping.
- e. Test for occult blood.
- f. Primary Myelofibrosis
- g. Glycosylated hemoglobin
- h. Pancytopenia

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Madhya Pradesh Medical Science University, Jabalpur
Post Graduate Degree Examination (Medical Faculty) July-2020

Paper Code-20AM0114100054

Subject- Patholgy

Paper-IV

Time : 3 Hours

Maximum Marks : 100

Instructions:

- 1) Draw diagrams wherever necessary.
- 2) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 3) Do not write anything on the blank portion of the question paper-such type of act will be considered as an attempt to resort to unfair means.

1. Long Answer Question (Any Two)

2 X 20 = 40

- a. Describe the role of inflammation and chemokines in prostatic cancer. Add a note on histological grading of Prostatic carcinoma.
- b. Discuss interpretation of CBC histograms in various haematological disorders.
- c. Discuss Renal function tests and their interpretation.

2. Write in Brief (Any Six)

6X 10 = 60

- a. Discuss the role of MPV in diabetes mellitus.
- b. Nucleolini.
- c. Discuss connective tissue stains used in histopathology.
- d. Fluorescent in Situ hybridization (FISH).
- e. SARS-CoV-2 Infection.
- f. Laboratory diagnosis of Typhoid fever.
- g. Immunohistochemistry (IHC)
- h. Tumor Markers

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