[LK 542] FEBRUARY 2017 **Sub.Code :5065**

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. List the causes of megaloblastic anemia. Discuss about the pathogenesis, morphology and bone marrow picture of megaloblastic anemia.

II. Write notes on: **(4 x 5 = 20)**

1. Morphological patterns of tissue necrosis.
2. Tumor markers.
3. Klinefelter syndrome.
4. Haemophilia.

III. Short answers on: **(5 x 2 = 10)**

1. Metaplasia.
2. Lipoxins.
3. Morphology of thrombi.
4. Conditions associated with protein energy malnutrition.
5. Russell bodies.

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[LL 542] AUGUST 2017 **Sub.Code :5065**

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define edema. Tabulate the pathophysiological categories of edema and write in detail about each category with suitable examples and illustrations.

II. Write notes on: **(4 x 5 = 20)**

1. Write about causes of cell injury and write briefly about hyperplasia with suitable examples.
2. Write briefly about idiopathic thrombocytopenic purpura – pathophysiology, morphology and investigatory findings.
3. Write about dystrophic and metastatic calcification.
4. Type III hypersensitivity reaction.

III. Short answers on: **(5 x 2 = 10)**

1. Enumerate four risk factors for DIC.
2. Morphology of granuloma.
3. Name the stages of shock.
4. Name four virus implicated in carcinogenesis.
5. Reticulocyte.

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[LM 542] FEBRUARY 2018 **Sub Code: 5065**

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define anaemia. Classify haemolytic anaemia. Write in detail about the pathogenesis, clinical features and lab diagnosis of sickle cell anaemia.

II. Write notes on: **(6 x 4 = 24)**

1. Chemical carcinogenesis.
2. Different types of giant cells with morphology and examples.
3. Protein energy malnutrition.
4. Glycogen storage disorders.
5. Mechanism of autoimmunity.
6. Amniotic fluid embolism.

III. Short answers on: **(6 x 1 = 6)**

1. Warthin Finkeldey giant cells.
2. Types of necrosis.
3. Mention two causes for pancytopenia.
4. Mott cell.
5. Mention four X- linked recessive disorders.
6. Enumerate four examples for metastatic calcification.

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[LN 542] AUGUST 2018 **Sub.Code :5065**

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define Neoplasia. Discuss in detail the pathogenesis, pathophysiology of radiation oncogenesis.

II. Write notes on: **(6 x 4 = 24)**

1. Type II hypersensitivity reaction.
2. Von villebrand disease.
3. Factors affecting wound healing.
4. Obesity.
5. Tumor markers.
6. Vitamin D deficiency.

III. Short answers on: **(6 x 1 = 6)**

1. Hematocrit in dengue fever.
2. Dysplasia.
3. Phagocytosis.
4. Heinz bodies.
5. Give two examples of autosomal recessive disorder.
6. Actinomycosis.

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[LO 542] FEBRUARY 2019 **Sub.Code :5065**

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(2 + 8 = 10)**

1. Define inflammation. Describe the major events of acute inflammation with a note on its outcome.

II. Write notes on: **(6 x 4 = 24)**

1. Type I hypersensitivity reaction.
2. Blood and bone marrow picture in multiple myeloma.
3. Anti-phospholipid syndrome.
4. Mechanism of apoptosis.
5. Lab diagnosis of neoplasm.
6. Fracture healing.

III. Short answers on: **(6 x 1 = 6)**

1. Sago spleen.
2. Microscopic appearance of lepromatous leprosy.
3. Mention any four childhood malignancies.
4. Enumerate four types of chromosomal rearrangements.
5. Virchow triad.
6. Reed Sternberg cell.

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[LP 542] AUGUST 2019 **Sub.Code :5065**

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(4 + 3 + 3 = 10)**

1. Define and classify leukaemia. Describe the blood and bone marrow findings in acute myeloid leukaemia.

II. Write notes on: **(6 x 4 = 24)**

1. Complications of myocardial infarction.
2. Sideroblastic anemia.
3. Tumour metastasis.
4. Graft versus host disease.
5. Viral haemorrhagic fever.
6. Down's syndrome.

III. Short answers on: **(6 x 1 = 6)**

1. Morphology of infarction.
2. Chloroma.
3. Vitamin C deficiency.
4. Name four cell derived mediators of inflammation.
5. Define hyperplasia and give two examples.
6. Anticoagulants.

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[LQ 542] FEBRUARY 2020 **Sub.Code :5065**

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(2 + 8 = 10)**

1. Define and classify shock. Discuss in detail about septic shock.

II. Write notes on: **(6 x 4 = 24)**

1. Classification of acute leukemia.
2. Vitamin D deficiency.
3. Pathogenesis of aquired immuno deficiency syndrome.
4. Asbestosis.
5. Coagulation disorders.
6. Burkitts lymphoma.

III. Short answers on: **(6 x 1 = 6)**

1. Transcription factors.
2. Hematopoietic cytokines.
3. Asteroid bodies.
4. Keloid.
5. Mutations in chronic myeloid leukemia.
6. Hematocrit in dengue fever.

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[LR 542] NOVEMBER 2020 **Sub.Code :5065**

(AUGUST 2020 SESSION)

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1+2+2.5+2.5+2=10)**

1. Define Inflammation. Enumerate the cellular events in acute inflammation. Discuss in detail the mechanism of Chemotaxis and Phagocytosis.Enlist the common defects in Leukocyte functions.

II. Write notes on: **(6 x 4 = 24)**

1. Types and causes for Pathologic Calcification.
2. Type I hypersensitivity reaction.
3. Pathogenesis of Septic Shock.
4. Chemical Carcinogenesis.
5. Laboratory Investigations done for diagnosis of Autoimmune Haemolytic Anaemia.
6. Describe the peripheral smear and bone marrow appearance in Chronic Myeloid Leukaemia with suitable diagrams.

III. Short answers on: **(6 x 1 = 6)**

1. Enumerate two common cytogenetic disorders involving Sex Chromosomes.
2. Enlist two common stains used to demonstrate fat in tissues.
3. Mention two causes for Basophilic Stippling.
4. Enumerate four common organs involved in Amyloidosis.
5. Enlist four important sequelae for Thrombosis.
6. What is Bombay Blood group?

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[MBBS 0921] SEPTEMBER 2021 **Sub.Code :5065**

(FEBRUARY 2021 SESSION)

M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define neoplasm. Enumerate the features of anaplasia. Discuss in detail about invasion and metastasis of neoplasm.

II. Write notes on: **(6 x 4 = 24)**

1. Morphology of various types of Hodgkin's lymphoma.
2. Complications of blood transfusions.
3. Necroptosis.
4. Role of tumor necrosis factor and IL-1 in inflammation.
5. PCR and detection of DNA sequence alterations.
6. Mechanism of recognition and rejection of allografts.

III. Short answers on: **(6 x 1 = 6)**

1. Epidermal growth factor.
2. Gross skeletal changes in rickets.
3. Morphology of mucormycosis.
4. Physiological hyperplasia.
5. Glanzmann thrombasthenia.
6. Lines of Zahn.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0222] FEBRUARY 2022 **Sub.Code :5065**

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2018-2019)

SECOND YEAR

PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define necrosis. Discuss in detail about the morphology of necrotic cell. Discuss various patterns of tissue necrosis.

II. Write notes on: **(6 x 4 = 24)**

1. Hereditary spherocytosis.
2. Morphology of multiple myeloma.
3. Familial hypercholesterolemia
4. Mucormycosis.
5. Type III hypersensitivity reactions.
6. Morphologic patterns of acute inflammation.

III. Short answers on: **(6 x 1 = 6)**

1. Platelet derived growth factor.
2. Acute phase proteins.
3. Exuberant granulation tissue.
4. Toll like receptors.
5. Skeletal abnormalities in Marfan's disease.
6. Bernard-Soulier syndrome.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0822] **AUGUST 2022** **Sub. Code :5065**

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define Thrombosis. Enumerate the etiological factors for thrombosis. Describe the morphology of a thrombus. Enlist the common sequelae for thrombosis. How will you differentiate it from a post-mortem clot.

II. Write notes on: **(6 x 4 = 24)**

1. Mechanism of Phagocytosis.
2. Transplant rejection reaction.
3. Immune Thrombocytopenia.
4. Types of Paraneoplastic syndromes.
5. Laboratory Investigations done for diagnosis of Iron deficiency Anaemia.
6. Pathological types of Hodgkin's Lymphoma.

III. Short answers on: **(6 x 1 = 6)**

1. Enlist four common stains used in demonstration of Amyloid.
2. Enumerate four common causes for Eosinophilia.
3. Give four examples for giant cells.
4. Mention four common tumour markers used in the laboratory diagnosis.
5. Give two examples for viral exanthematous fever.
6. Mention two common causes for Megaloblastic Anaemia.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0223] **FEBRUARY 2023** **Sub. Code :5065**

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Classify hypersensitivity reactions and discuss in detail Type III hypersensitivity reactions.

II. Write notes on: **(6 x 4 = 24)**

1. Steatosis.
2. Klinefelter syndrome.
3. Vitamin C deficiency.
4. Aplastic Anaemia.
5. Multiple myeloma.
6. Steps in healing of wounds.

III. Short answers on: **(6 x 1 = 6)**

1. Name four types of chemical carcinogens.
2. Name four Auto-immune diseases.
3. Difference between benign and malignant tumour.
4. Name four Autosomal dominant diseases.
5. Plasmodium falciparum in peripheral blood smear.
6. Sago spleen.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0723] **JULY 2023** **Sub. Code :5065**

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER V – PATHOLOGY – I (GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define Apoptosis. Enumerate the causes of Apoptosis. Discuss in detail about mechanisms of Apoptosis. Add a note on morphology of Apoptotic cell.

II. Write notes on: **(6 x 4 = 24)**

1. Chemokines.
2. Morphology of infarcts.
3. Gaucher's disease.
4. Morphology of kidney in systemic lupus erythematosus.
5. Aplastic anemia.
6. Morphology of acute myeloid leukemia.

III. Short answers on: **(6 x 1 = 6)**

1. Barr body.
2. Homer-Wright Pseudo rosettes.
3. Acute Vitamin-A toxicity.
4. Enumerate the oncogenic DNA viruses.
5. Enumerate the opportunistic infections in AIDS.
6. Immune granulomas.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0224] **FEBRUARY 2024** **Sub. Code :5065**

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER V – PATHOLOGY – I

(GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. 38 / F presented and complaints recurrent hemarthrosis. Discuss the probable causes and classify the bleeding disorders. Discuss the lab investigation of the same.

II. Write notes on: **(6 x 4 = 24)**

1. Apoptosis.
2. Fracture healing.
3. Glycogen storage disorders.
4. Thalassemia.
5. Red cell indices.
6. Embolism.

III. Short answers on: **(6 x 1 = 6)**

1. Free Radicals.
2. Pathological calcification.
3. Tumour suppressor genes.
4. Barr body.
5. Causes of Thrombocytopenia.
6. Neutrophilia.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0824] **AUGUST 2024** **Sub. Code :5065**

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER V – PATHOLOGY – I

(GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define Anemia. Write down the classification of Hemolytic anemia and discuss in detail the molecular pathogenesis, morphology and lab investigation of beta Thalassemia.

II. Write notes on: **(6 x 4 = 24)**

1. Tumour marker.
2. Pathogenesis and types of Amyloidosis.
3. Mechanism of Apoptosis.
4. Graft rejection.
5. Disseminated Intravascular Coagulation.
6. Viral carcinogenesis.

III. Short answers on: **(6 x 1 = 6)**

1. Virchow's triad.
2. MCV.
3. Fat necrosis.
4. Down's syndrome.
5. Two examples of Type III hypersensitivity reaction.
6. p53 gene.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0325] **MARCH 2025** **Sub. Code :5065**

M.B.B.S. DEGREE EXAMINATIONS

(For the arrear candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER V – PATHOLOGY – I

(GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define Edema. Pathogenesis of different types of Edema with examples.

II. Write notes on: **(6 x 4 = 24)**

1. Phagocytosis.
2. Pathogenesis of Septic shock.
3. Wilms' tumor.
4. Von Willebrand disease.
5. Classify AML.
6. Beta thalassemia.

III. Short answers on: **(6 x 1 = 6)**

1. Morphology of Atherosclerotic plaque.
2. Diseases caused by Blood Transfusion.
3. PAP smear study.
4. Causes of Eosinophilia.
5. Any four autosomal recessive disorders.
6. Difference between benign and malignant tumors.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MBBS 0725] **JULY 2025** **Sub. Code: 5065**

M.B.B.S. DEGREE EXAMINATION

(For the arrear candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER V – PATHOLOGY – I

(GENERAL PATHOLOGY & HAEMATOLOGY)

Q.P. Code: 525065

Time: Three hours **Maximum : 40 Marks**

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Define Embolism and the types of Embolism. Discuss in detail about pulmonary embolism.

II. Write notes on: **(6 x 4 = 24)**

1. Vitamin A deficiency.
2. Chemical Carcinogens.
3. Hemophilia.
4. Acute Lymphoblastic Leukemia.
5. Phagocytosis.
6. Apoptosis.

III. Short answers on: **(6 x 1 = 6)**

1. Metaplasia.
2. Sago spleen.
3. Name four childhood tumours.
4. Name four causes of Thrombocytopenia.
5. Name four Autosomal Recessive disorders.
6. Ghon complex.

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