Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 02-Jan-2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – I (RS-2/RS-3)
General Pathology
Q.P. CODE: 7391

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Describe the pathology of radiation induced injury.
2. Discuss the methods of detecting fungal infections in tissues.
3. Discuss the mechanisms of allograft rejection.
4. Opportunistic infections in AIDS.
5. Genomic instability and malignancies.
6. Discuss Embryonal tumours.
7. Discuss etiopathogenesis of amyloidosis. Write about demonstration of amyloid in tissues.
8. Basic mechanisms of autoimmunity.
9. Tensins in health and disease.
10. Proliferation markers.

M.D. Degree Examination – 04-Jan-2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – II (RS-2/RS-3)
Haematology, Clinical Pathology and Cytology
Q.P. CODE: 7392

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Role of FNAC in Pancreatic lesions.
2. Thalassemia Major – Etiopathogenesis and Laboratory diagnosis.
3. Investigation in a case of blood transfusion reaction.
4. Urinary casts.
5. Acute promyelocytic leukemia.
6. Etiopathogesis and differential diagnosis of ineffective Erythropoiesis.
7. Haemolytic anaemia of newborn.
8. Prothrombin gene mutation.
9. Sputum Cytology.
10. Single Donor Platelet.

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 06-Jan-2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – III
(RS-2/RS-3)
Systemic Pathology
Q.P. CODE: 7393

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Discuss the pathology of cardiomyopathies.
2. Write about classification and morphology of non seminomatous germ cell tumours of testis.
3. Non-TB granulomatous lung diseases.
4. Discuss etiopathogenesis of cholelithiasis.
5. Write about the classification of odontogenic cysts and odontogenic tumours.
6. Write about etiopathogenesis of GIT lymphomas.
7. Write about pathogenesis and morphology of cystic lesion of kidney.
8. Pathology of cystic lung lesions of childhood.
9. Write about Immune mechanisms of glomerular injury. Add a note on role of immune fluorescence in the diagnosis of glomerular diseases.
10. Diagnostic challenges in Endocervical adenocarcinoma.

M.D. Degree Examination - 08-Jan-2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – IV
(RS-2/RS-3)
Systemic Pathology
Q.P. CODE: 7394

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Chromatin regulatory complexes-associated cancer.
2. Molecular testing of human papilloma virus.
3. Thymic tumours.
4. Psoriasis.
5. Diagnosis of gastrointestinal MALT lymphomas.
6. Recent WHO classification of CNS tumours.
7. Retinoblastoma.
8. Pathology of Infectious arthritis.
9. Inherited Neuropathy.
10. Myxoid soft tissue tumours

* * * * *

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 26-May-2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – I (RS-2/RS-3)
General Pathology
Q.P. CODE: 7391

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Fat embolism.
2. Primary immunodeficiency disorders.
3. Role of stroma in tumour growth and progression.
4. Role of the autopsy in the diagnosis of sepsis and related fatal syndromes.
5. Laboratory diagnosis of Genetic disorders.
6. Role of histopathology in cutaneous fungal infections.
7. Antibody mediated graft rejection.
8. Prostaglandins in Inflammation and Cancer.
9. Quality management in Histopathology lab.
10. Epstein Barr Virus and Cancer.

* * * * *

M.D. Degree Examination – 28-May-2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – II (RS-2/RS-3)
Haematology, Clinical Pathology and Cytology
Q.P. CODE: 7392

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Describe Fanconi Anemia in detail.
2. Discuss Mantle cell Lymphoma.
3. Write about automation in Haematology Laboratory.
4. Give an account on etiopathogenesis of ITP. How will you investigate these cases?
5. Discuss in detail about Fresh Frozen Plasma.
6. Write about urinary deposits in detail.
7. Write about preservation of body fluids.
8. Discuss about enzymes in Health and disease.
9. What are naturally occurring Anticoagulants. Describe about Protein ‘’C’’ deficiency
10. Discuss in detail about Quantitative Buffy Coat.

* * * * *

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 30-May-2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – III
(RS-2/RS-3)
Systemic Pathology
Q.P. CODE: 7393

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Endoscopic biopsy in Malabsorption Syndrome.
2. Endometrial stromal tumors.
3. Discuss the pathology of Myocarditis.
4. Histopathology of chronic viral hepatitis.
5. Renal involvement in Diabetes Mellitus.
6. Pathogenesis, diagnostic criteria and differential diagnoses of autoimmune Gastritis.
7. Molecular profiling of Breast Cancer.
8. Role of IHC markers in Lung Tumors. Add a note on IHC markers in primary and metastatic mucinous adenocarcinomas.
9. Discuss the role of ancillary techniques in the diagnosis of gestational trophoblastic diseases.
10. Discuss the role of Immunohistochemistry in the Diagnosis of Genitourinary Tumors.

* * * * *

M.D. Degree Examination - 02-Jun-2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – IV
(RS-2/RS-3)
Systemic Pathology
Q.P. CODE: 7394

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Use of elastic stains in Histopathology examination (HPE).
2. Classification of and diagnosis of cutaneous lymphoproliferative disorders.
3. Molecular profiling of osteoarticular neoplasms.
4. Molecular biology of gliomas .
5. Immune mediated neuropathies.
6. IHC markers used in differential diagnosis of myxoid neoplasms.
7. Classify epithelial neuroendocrine neoplasms.
8. Partial autopsy.
9. Variants of papillary carcinoma thyroid and its prognostic significance.
10. NUT carcinoma.

* * * * *

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 24/Sep/2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – I (RS-2/RS-3)
General Pathology
Q.P. CODE: 7391

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Discuss etiopathogenesis of thrombus and add a note on fate of thrombus.
2. Role of chemokines and their receptors in health and disease.
3. Human papilloma virus and cancer.
4. Tumor immunity.
5. Role of growth factors in healing.
6. Cytogenetic abnormality in Down syndrome.
7. AIDS defining infections.
8. Pathological calcification.
9. Turn around time.
10. DNA Hybridization.

* * * * *

M.D. Degree Examination – 26/Sep/2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – II (RS-2/RS-3)
Haematology, Clinical Pathology and Cytology
Q.P. CODE: 7392

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. FNAC of focal liver lesions.
2. Biomarkers for carcinoma prostate. Add a note on Gleason’s grading system.
3. Synovial fluid analysis in pathological conditions.
4. CSF pleocytosis.
5. Paraproteinemia.
6. Laboratory diagnosis of myelofibrosis.
7. Discuss the qualitative defects of platelets.
8. Discuss the diagnostic utility of cytological techniques in respiratory tract pathology.
9. Pathogenesis of paroxysmal nocturnal haemoglobinuria.
10. Discuss the utility of cytospin in clinical laboratory.

* * * * *

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 29/Sep/2025

[Time: 3 Hours] **[Max. Marks: 100]**

PATHOLOGY - PAPER – III
Systemic Pathology
Q.P. CODE: 7393

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Molecular mechanism of Endometrial carcinoma.
2. H. Pylori induced lesions of Stomach.
3. Obstructive Uropathy.
4. Infective endocarditis.
5. Aetiopathogenesis of emphysema.
6. **HER2/ Neu**
7. **Wilson's** Disease
8. Cystic neoplasms of pancreas.
9. Testicular lymphoma.
10. Current concepts of trophoblastic Diseases

* * * * *

M.D. Degree Examination - 03/Oct/2025

Time: 3 Hours **Max. Marks: 100**

PATHOLOGY - PAPER – IV
Systemic Pathology
Q.P. CODE: 7394

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Pathologic, immunohistochemical and molecular genetic features of Astrocytic gliomas
2. Classify Diabetes Mellitus. Discuss the pathogenesis of acute and chronic complications of Diabetes
3. Write the recent WHO classification of chondrogenic tumors. Describe the pathology of atypical cartilaginous tumors and Dedifferentiated chondrosarcoma
4. Tumor micro environment
5. Role of direct immunofluorescence in diagnosis of vesiculobullous diseases of skin
6. Role of Immuno Histo Chemistry in diagnosis of lymphomas
7. Discuss various molecular techniques used in diagnosis of cancer
8. Discuss classification of ovarian tumors
9. Ocular surface squamous neoplasia (OSSN)
10. Pathology of Thymic neoplasms

* * * * *