Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 02-Jan-2025

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

GENERAL MEDICINE
PAPER I (RS-2/RS-3)
Q.P. CODE: 9181

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. What are the types of hypersensitivity reactions? What are the immunological mechanism and pathological lesions involved? List some prototypic disorders for each
2. Tabulate drugs that are associated with withdrawal effects. What are the symptoms of each drug withdrawal and how would you treat in each case?
3. How does advanced age affect drug pharmacokinetics? What are the principles to be considered while prescribing for the elderly?
4. What are the patterns of disease inheritance? Draw a pedigree to illustrate each inheritance pattern and list diseases for each
5. Detail the anatomy of the coronary arteries and explain the clinical relevance
6. What are the physiological principles, indications and interpretation of nerve conduction studies?
7. Discuss enteral versus parenteral nutrition to meet the needs in the critically ill patient
8. Sites of production of alkaline phosphatase, the clinical relevance of elevated levels, how do you differentiate between the different causes?
9. What is gene therapy? Discuss five clinical applications of gene therapy
10. Discuss the spectrum of invasive candidal infections, risk factors and management

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 04-Jan-2025

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

GENERAL MEDICINE
PAPER - II (RS-2/RS-3)
Q.P. CODE: 9182

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. What are the risk factors, clinical features and Paraneoplastic manifestations of hepatocellular carcinoma
2. Classify nontuberculous mycobacterial infection and discuss the risk factors, criteria for diagnosis and clinical presentations
3. What are the clinical features, etiology and management of constrictive pericarditis?
4. Etiology, definition and severity classification of acute pancreatitis
5. Salmonella typhi infections: clinical presentation, therapy and complications. What is anamnestic response?
6. How would you manage a clinically unstable non-ST elevation myocardial infarction
7. What are the clinical features and diagnostic evaluation and management of celiac disease?
8. What is the rationale, indications and complications of catheter ablation in arrhythmias?
9. Classify antiviral therapy in COVID 19 infection. What are the indications for use and the side effects of each drug?
10. Types of Carbapenemases. Risk factors, prognosis and management of infections due to carbapenemase producing organisms

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 06-Jan-2025

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

GENERAL MEDICINE
PAPER III (RS-2/RS-3)
Q.P. CODE: 9183

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 approach to treatment of parapneumonic pleural effusion
2. List the clinical features, immunological markers, treatment and poor prognostic markers of systemic scleroderma
3. What are the risk factors, clinical presentation and treatment for cerebral venous thrombosis?
4. Causes, diagnosis and therapy of diffuse alveolar hemorrhage
5. What are the non-pharmacological therapy for COPD?
6. What are Cryoglobulins? Classify and describe the disease associated and clinical presentations of the different types
7. Classify secondary causes for parkinsonism. Discuss the management of the same
8. Etiology, clinical manifestation and treatment of neuroleptic malignant syndrome
9. Discuss the pharmacological management of Gout flare
10. Differentiate demyelinating, axonal and neuronal neuropathy

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 08-Jan-2025

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

GENERAL MEDICINE

PAPER - IV (RS-2/RS-3)

Q.P. CODE: 9184

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. Bipolar disorder.
2. Viper bite.
3. Pure red cell aplasia.
4. Thrombotic thrombocytopenic purpura.
5. Paraproteinemias.
6. IgA Nephropathy.
7. Continuous Renal Replacement Therapy (CRRT).
8. Autoimmune Hypothyroidism.
9. Pheochromocytoma.
10. Approach to precocious puberty in boys.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 26-May-2025

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

GENERAL MEDICINE
PAPER I (RS-2/RS-3)
Q.P. CODE: 9181

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. Classify newer anticoagulants. What is the site of action and the approved indications for use
2. What are the pathways of complement system and the effector actions of each? Discuss how it impacts immunity
3. How does pregnancy affect drug pharmacokinetics? What are principles to consider while prescribing to a pregnant patient?
4. What is polymerase chain reaction? How is DNA sequencing done? Give examples of its use in diagnosis of disease conditions
5. List the sites of portosystemic anastomosis and explain the clinical relevance
6. Describe the physiological anatomy of neuromuscular junction and explain how diseases involving the neuromuscular junction cause muscle weakness
7. What are the indications for genetic counselling? List genetic conditions that can be tested and the interventions that can be instituted
8. 25-year-old man presents to OPD with diabetes and hypertension. His height is 160 cms and weight is 118kg. He would like to lose weight and has been on lifestyle measures with no success. What drugs can be used in treatment of this patient, what is the mechanism of action and key indications for use, adverse effects and expected efficacy
9. Classify vasculitis based on the pathology. Give the ACR classification criteria for any one type of vasculitis
10. Define and classify extended – spectrum β-lactamases, list the risk factors for acquiring ESBL and its implications on antibiotic choice

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 28-May-2025

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

GENERAL MEDICINE
PAPER - II (RS-2/RS-3)
Q.P. CODE: 9182

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. 45-year-old man from Chhattisgarh presents with intermittent fever, loss of appetite and weight for 6 month duration with massive Splenomegaly on clinical examination.
   a) Discuss the differential diagnosis you would consider and the investigations to confirm the diagnosis.
   b) If his rapid K39 test was positive, what treatment would you prescribe?
2. Discuss the oral antiviral therapy in the management of hepatitis C infection s
3. Discuss the diagnosis and management of chronic heart failure with preserved ejection fraction
4. How is cardiac risk assessment done for a patient undergoing surgery? Make an algorithm for the same
5. What are the presenting clinical features and serum markers and surveillance recommendations for pancreatic carcinomas
6. Criteria for diagnosis and management of irritable bowel syndrome
7. What are the rationale, indications and contraindications to cardiac resynchronization therapy?
8. Tabulate the pathogens involved in viral encephalitis in India, the characteristic presentation of each infection and the management for each
9. Rationale, pre-requisites and contraindications to short course MDR TB regimen. Name the drugs and the duration of use
10. Risk factors, clinical presentation, diagnosis and treatment of Strongyloides hyper infection syndrome

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 30-May-2025

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

GENERAL MEDICINE
PAPER III (RS-2/RS-3)
Q.P. CODE: 9183

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. Elaborate on the clinical manifestations and diagnosis of Takayasu arteritis
2. Discuss the risk factors for disease flares in patients with SLE, how do you classify severity of flare
3. Enumerate the risk factors and discuss the management of pulmonary embolism
4. Etiology and management of orthostatic hypotension
5. Approach to a patient with non-traumatic monoarthritis
6. What are the clinical presentations and extra glandular manifestations of Sjogren's syndrome?
7. What are the interstitial lung diseases associated with connective tissue disorders? Therapy and complications
8. Classify the causes for chronic meningitis and discuss the etiologies to be considered in a patient with advanced HIV infection
9. Discuss pulmonary rehabilitation post severe COVID pneumonia
10. Discuss the indications and options for reperfusion therapy in acute stroke

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 02-Jun-2025

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

GENERAL MEDICINE
PAPER - IV (RS-2/RS-3)
Q.P. CODE: 9184

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. What are the risk factors, clinical features and treatment of lead toxicity?
2. Elaborate on Myxedema coma: risk factors, triggers, clinical manifestation and treatment
3. Discuss the etiology, clinical features, evaluation and management options for paroxysmal nocturnal hemoglobinuria
4. Diabetic nephropathy: pathological stages, investigations and management
5. Summarize the management of acute promyelocytic leukemia
6. Elaborate on the etiology, evaluation and management of SIADH
7. Discuss therapy and complications of pemphigus vulgaris
8. Discuss presentation, tumors and antibodies associated with paraneoplastic neurological syndromes
9. Discuss the neuro-regulatory systems that are implicated in major depressive disorder (MDD) and what are the differential diagnosis that need to be excluded prior to making a diagnosis of MDD
10. List the delayed effects of organophosphorus (OP) toxicity. Discuss the management options for OP poisoning

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 24/Sep/2025

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

GENERAL MEDICINE
PAPER - I (RS-2/RS-3)
Q.P. CODE: 9181

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. Pharmacogenomics
2. Falls in elderly
3. Stages in neutrophil development
4. Genetic counseling: indications and steps
5. Regulation of energy balance in human adult
6. Preventive strategies for antibiotic resistance in multidisciplinary intensive care units
7. PUO
8. Depression
9. Hypersensitivity pneumonia
10. Myelodysplastic syndromes

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 26/Sep/2025

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

GENERAL MEDICINE

PAPER - II (RS-2/RS-3)

Q.P. CODE: 9182

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. Cardiomyopathies.
2. Pregnancy induced hypertension.
3. Cardiogenic pulmonary edema.
4. Orthostatic hypotension.
5. Takotsubo cardiomyopathy.
6. Non alcoholic fatty liver disease.
7. Irritable bowel syndrome.
8. Immune Reconstitution Inflammatory Syndrome (IRIS).
9. Aspergillus infections.
10. Nipah virus.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 29/Sep/2025

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

GENERAL MEDICINE
PAPER III
Q.P. CODE: 9183

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. Epilepsy syndromes.
2. Hyperkinetic movement disorders.
3. Autosomal recessive ataxias.
4. Acute severe Asthama.
5. Pulmonary thromboembolism.
6. Neuropathic joint diseases.
7. Lupus Nephritis.
8. Reactive arthritis.
9. Microscopic polyangitis.
10. Familial Mediterranean fever.

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 03/Oct/2025

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

GENERAL MEDICINE
PAPER - IV
Q.P. CODE: 9184

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. Elaborate on clinical presentation, evaluation and management of emphysematous pyelonephritis

2. Enumerate the triggers, clinical presentation and management of acute chest syndrome in sickle cell disease

3. Clinical features, management and complications of scorpion envenomation

4. Classify diabetes mellitus. How do you recognize monogenic forms of diabetes and how do you manage them?

5. Elaborate on spectrum of clinical presentation of multiple myeloma and the laboratory investigations that aid in diagnosis

6. Discuss the management of paracetamol overdose

7. What are the agents causing occupational cancers and the type of cancers caused? What are the industrial uses of these agents where exposures occur? How do you prevent them?

8. Clinical features, diagnosis and management of delirium tremens

9. Treatment and complications of psoriasis vulgaris

10. 35-year-old man presents with periorbital puffiness and swelling of feet of 5 days duration. He has been taking Tab Diclofenac for a knee injury for the last 1 month. His creatinine report is 4.5 g% (Normal 0.4-1.4g%)
    a) His urine routine examination shows proteinuria of 200mg over 24hours with microscopy being bland with no casts and 7 RBCs.
    b) What is the renal pathology expected in this patient?
    c) What are the other causes for a similar pathology?
    d) How would you manage this patient?

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