Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – JULY-2018

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

Pathology-Paper -I

(RS2 & RS3 SCHEME)

QP Code: 1081

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Define acute inflammation. Describe vascular and cellular events of acute inflammation.
2. Define leukemias. Describe clinical features and lab diagnosis of Chronic myeloid Leukemia.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. p53 oncogene
4. Apoptosis
5. Amyloidosis of kidney
6. Embolism
7. Metastasis of tumors
8. Primary tuberculosis
9. Rhinosporidiosis
10. Reversible injury
11. Wound healing by primary union
12. Fatty liver

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Hyposthenuria
14. Type III hypersensitivity reaction
15. Congenital syphilis
16. Lab diagnosis of sickle cell anaemia
17. C V C (Chronic Venous Congestion) Lung
18. Phagocytosis
19. Dry Gangrene.
20. CSF findings of pyogenic meningitis
21. Viral carcinogenesis
22. Metastatic calcification

Rajiv Gandhi University of Health Sciences, Karnataka

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MBBS (Phase - II) Degree Examination - JULY-2018

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

Pathology – Paper II (RS2 & RS3 Scheme)

Q.P. CODE: 1082

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Classify tumours of the Ovary. Describe the morphological features of Mucinous tumours of the Ovary.
2. Enumerate Chronic Obstructive Pulmonary diseases. Discuss the etiopathogenesis of Emphysema and add a note on its complications.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Laboratory diagnosis and complications of Myocardial Infarction
4. Warthin's tumour
5. Linitis Plastica
6. Differences between Ulcerative Colitis and Crohn's disease
7. Pathogenesis of Type II Diabetes Mellitus
8. Nephrotic syndrome
9. Endometriosis
10. Discuss briefly about Pre-neoplastic Lesions of Skin
11. Papillary Carcinoma Thyroid
12. Seminoma

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Define Aneurysm and mention the causes.
14. Morphological features and radiological appearance of Osteosarcoma
15. Paget's disease of Bone
16. Morphology of Tuberculoid Leprosy
17. Morphology of Hepatocellular Carcinoma
18. Horseshoe Kidney
19. Morphology of Hydatidiform Mole
20. Morphology of Phyllodes tumour
21. Pituitary Adenoma
22. Multiple Endocrine Neoplasia

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – JULY-2018

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

MICROBIOLOGY -Paper -I
(RS2 & RS3 SCHEME)
QP Code: 1083

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Enumerate antigen antibody reactions. Describe the various types and applications of agglutination reaction. [3+ 7]
2. Describe the pathogenesis and laboratory diagnosis of cholera. [5+5]

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Bacterial flagella
4. Chemical disinfectants
5. Various types of culture media and their uses
6. Bacterial plasmids
7. Pathogenesis of Corynebacterium diphtheriae
8. Monoclonal antibodies
9. Type III hypersensitivity
10. Brucellosis
11. Laboratory diagnosis of extra pulmonary tuberculosis
12. Helicobacter pylori

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Koch's postulates
14. Bacterial exotoxins
15. Enumerate biological effects of complement
16. Functions of Ig G
17. Enumerate bacteria casing sexually transmitted infections.
18. Pulmonary anthrax
19. Rapid plasma reagin test
20. Enumerate diseases caused by *Haemophilus influenzae*
21. Inclusion conjunctivitis
22. Laboratory diagnosis of Meningococcal meningitis

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JULY-2018

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

MICROBIOLOGY -Paper -II
(RS2 & RS3 SCHEME)
QP Code: 1084

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

ONG ESSAYS **2 x 10 = 20 Marks**

1. Classify Hepatitis viruses. Describe the pathogenicity and laboratory diagnosis of Hepatitis B virus infection. (2+4+4 = 10 marks)
2. List the Intestinal Nematodes. Describe the life cycle and laboratory diagnosis of Wucheriria bancrofti. (2+4+4 = 10 marks)

HORT ESSAYS **10 x 5 = 50 Marks**

3. Classify Herpes virus and add a note on laboratory diagnosis of HSV
4. Superficial Mycoses
5. Sporotrichosis
6. Mycetoma
7. Ebola virus
8. Pathogenesis and laboratory diagnosis of Polio myelitis
9. Pathogenesis and laboratory diagnosis of Rabies
10. Morphology and laboratory diagnosis of Giardia lamblia
11. Pathogenesis of Dracunculus medinensis
12. Loa Loa

HORT ANSWERS **10 x 3 = 30 Marks**

13. Name three Opportunistic Protozoal Parasitic infections.
14. Tzanck smear
15. Mention the Stool Concentration techniques in diagnostic Parasitology.
16. Neatly labelled diagram of Human Immunodeficiency Virus
17. Biological vector
18. Draw labelled diagram of Hymenolopis nana.
19. Mention the complications of Dengue virus infection
20. Slide culture technique in Mycology
21. Enumerate three Fungi causing Ocular Infections.
22. Clinical manifestations of Epstein Barr virus infection

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JULY-2018

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

Pharmacology – Paper I (RS2 & RS3 Scheme)

Q.P. CODE: 1085

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Classify drugs used for Hyperlipidemia based on mechanism of action. Describe the advantages and disadvantages of each group.
2. Classify Adrenergic Blockers. Mention the advantages of Cardio Selective Beta Blockers over Non Selective Beta Blockers.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Low molecular weight Heparins
4. Classify Skeletal Muscle relaxants and mention their clinical uses.
5. Halothane
6. What is Drug interaction? Give examples.
7. Treatment of Glaucoma
8. Pharmacovigilance
9. Ionotropic agents
10. Techniques used in the administration of Local Anaesthetics
11. Drug synergism
12. Treatment of Chronic Alcoholism

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Give two examples of Atypical Antipsychotics and mention two advantages of them.
14. Valproate drug interactions
15. Write briefly on Nasal Decongestants.
16. Mention two drugs used for Acute attack of Classical Angina. Describe their mode of administration.
17. Give examples for Vasodilators used in the treatment of Congestive Cardiac Failure and why they are used.
18. Mechanism of action of Antidotes used in case of overdose of Warfarin
19. Why most of the Statins are administered at bedtime?
20. What is a Prodrug? Give four examples for Prodrugs.
21. Explain Edrophonium Test.
22. Give three examples of Drugs given per-rectally and its advantage.

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JULY-2018

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

Pharmacology – Paper II (RS2 & RS3)

Q.P. CODE: 1086

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Classify Oral Antidiabetic Drugs. Describe mechanism of action and adverse effects of Metformin. (4+3+3)
2. Classify drugs used in tuberculosis. Describe mechanism of action, adverse effects and uses of Rifampicin. (3+2+3+2)

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Sumatriptan
4. Topical Gluco-corticoids
5. Danazol
6. Stimulant Purgatives
7. Cotrimoxazole
8. Monobactams
9. Mechanism of action and uses of Metronidazole
10. Diethyl-carbamazine
11. Tocolytics
12. Retroviral Protease Inhibitors

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Disadvantages of Anticholinergic Bronchodilators
14. Ulcer protectives in Peptic Ulcer disease
15. Expectorants
16. Cetrizine
17. Adverse effects of Metoclopramide
18. Dimercaprol
19. Vincristine
20. Calciferol
21. Phenol derivative Antiseptics
22. Lactulose

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – JULY-2018

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

FORENSIC MEDICINE
(RS2 & RS3)
QP Code: 1087

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Define Rape as per section 375 IPC. Describe the findings in a case of rape of married woman of age 30 years who is accustomed to sexual intercourse. Mention the evidentiary material that needs to be collected from this victim of rape.
2. Describe the civil responsibilities of a mentally ill person. Add a note on McNaughten's rule.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Conduct of doctor in witness box
4. Mummification
5. Examination of skeletal remains
6. Throttling
7. Battered baby syndrome
8. Presumptive signs of pregnancy
9. Features of chronic lead poisoning
10. Preservation and dispatch of viscera for chemical analysis
11. Sulphuric acid poisoning
12. Methyl Alcohol poisoning

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Privileged communication
14. Functions of state medical council
15. Corpus delecti
16. Anthropometry
17. Precautions in autopsy of HIV infected body
18. Incised wounds
19. Filigree burns
20. Rule of nine
21. Medicolegal importance of impotence
22. Precipitate labour

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – II Degree Examination - DEC-2018

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

Pathology – Paper I (RS2 & RS3 Scheme)

Q.P. CODE: 1081

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Define Neoplasia. Outline the differences between Benign and Malignant tumours. Mention the modes of spread of Malignant tumours with examples.
2. Define Anaemia and mention the etio-pathological classification. Discuss the Peripheral Blood and Bone Marrow findings in Megaloblastic Anaemia.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Pathologic Calcification
4. Pathogenesis of Septic Shock
5. Klinefelter syndrome
6. Write in brief on chemical mediators of Inflammation.
7. Vitamin A deficiency
8. Discuss AIDS defining Opportunistic Infections.
9. Write briefly on the pathogenesis of Chemotaxis.
10. Leukemoid reactions
11. Peripheral Blood picture in Acute Myeloid Leukemia
12. Discuss briefly the importance of Exfoliative Cytology.

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Reed – Sternberg Cell
14. Metaplasia
15. Fate of Thrombus
16. Lepromatous Leprosy
17. Gaucher disease
18. Primary complex
19. LE cell phenomenon
20. Auer rods
21. Indications for Bone Marrow Aspiration
22. Benedict's test

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - DEC-2018

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

Pathology – Paper II (RS2 & RS3 Scheme)

Q.P. CODE: 1082

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Define and classify Cirrhosis. Discuss the pathology and complications of Alcoholic Cirrhosis. (4+3+3 = 10 marks)
2. A 58 years old lady presented with ill defined Hard Breast Lump which was fixed to underlying muscle. Axillary Lymphnodes were enlarged.
   a) What is your diagnosis and why?
   b) What are the histological types of this Lesion?
   c) Add a note on prognostic factors in this condition. (2+5+3 = 10 marks)

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Subacute Bacterial Endocarditis
4. Types and morphology of Renal Cell Carcinoma
5. Pathogenesis of Insulin dependent Diabetes Mellitus
6. Astrocytoma
7. Teratoma – Ovary
8. Multinodular Goitre
9. Ulcerative Colitis
10. Phyllodes tumour
11. Carcinoid tumour
12. Retinoblastoma

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Urine findings in Acute Post Streptococcal Glomerulonephritis
14. Chondroblastoma
15. Rhabdomyosarcoma
16. Small Cell Carcinoma of Lung
17. Microscopic features of Lobular Carcinoma Breast
18. Medullary Carcinoma Thyroid
19. Psammoma Bodies
20. Granulosa Cell Tumour – Ovary
21. Leukoplakia – Oral Cavity
22. Hirschsprung disease

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - DEC-2018

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

Microbiology – Paper I (RS2 & RS3 Scheme)

Q.P. CODE: 1083

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Enumerate various Antigen Antibody reactions. Describe Agglutination reactions with examples. (4+6)
2. Enumerate organisms causing sexually transmitted disease. Describe laboratory diagnosis of Syphilis. (3+7)

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Bacterial cell wall
4. Moist heat sterilization
5. Mechanisms of innate immunity
6. Type IV Hyper sensitivity reaction
7. Immunodiffusion tests
8. Types of Mutations with examples
9. Non suppurative lesions produced by Streptococci
10. Classical complement pathway
11. Laboratory diagnosis of cholera
12. Epidemic typhus

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Hapten
14. Labelled diagram of Imunoglobulin A
15. Major Histo Compatability complex
16. Gas pak
17. Pili
18. Labelled diagram of bacterial growth curve
19. Culture media for Mycobacterium tuberculosis
20. Immune prophylaxis of diphtheria
21. Examples for combined immunodeficiency diseases
22. Clot culture

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC-2018

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

MICROBIOLOGY -Paper -II
(RS2 & RS3 SCHEME)
QP Code: 1084

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Describe the life cycle, pathogenesis and laboratory diagnosis of Entamoeba histolytica. (3+4+3)
2. Classify Picorna viruses. Describe the pathogenesis, laboratory diagnosis and prophylaxis of poliomyelitis. (2+3+3+2)

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Nosocomial infections
4. Ebola virus
5. Cryptococcosis
6. Hepatitis B vaccines
7. Laboratory diagnosis of dermatophytosis
8. Viruses causing diarrhoea
9. Infectious mononucleosis
10. Laboratory diagnosis of vivax malaria
11. Stool concentration methods
12. Larva migrans

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Kyasanur forest disease
14. Oncogenic viruses
15. Antigens of HIV
16. Laboratory diagnosis of measles
17. Molluscum contagiosum
18. Trichomoniasis
19. Casoni's test
20. Life cycle of Enterobius vermicularis
21. Antigenic shift and antigenic drift
22. Cysticercus cellulosae

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC-2018

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

PHARMACOLOGY -Paper -I
(RS2 & RS3 SCHEME)
QP Code: 1085

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Classify antihypertensives. Explain the pharmacological actions, adverse effects and uses of angiotensin converting enzyme (ACE) inhibitors.
2. Define bioavailability. Describe the various factors affecting drug bioavailability with examples.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Low molecular weight heparins
4. Uses of osmotic diuretics
5. Atropine substitutes as mydriatics
6. Uses of adrenaline
7. Benzodiazepines
8. Pure opioid antagonists
9. Uses of anticholinesterases
10. Preanaesthetic medication
11. Cardioselective beta blockers
12. Uses and adverse effects of sodium valproate

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Drug therapy in paracetamol poisoning
14. Define tachyphylaxis with examples
15. Why beta-blockers are combined with long acting nitrates in angina?
16. Rationale of using Digoxin in congestive heart failure
17. Indications of parenteral iron
18. Rationale of using low dose aspirin in patients with myocardial infarction
19. Name three centrally acting skeletal muscle relaxants
20. Rationale of using selegiline in parkinsonism
21. Treatment of status epilepticus
22. Potassium channel openers

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC-2018

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

PHARMACOLOGY -Paper -II
(RS2 & RS3)
QP Code: 1086

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Classify penicillins. Explain the therapeutic uses and adverse effects of penicillin G.
2. Classify oral antidiabetic drugs with examples. Explain the mechanism of action of any one group and outline the management of diabetic ketoacidosis.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Adverse effects of glucocorticoids
4. Propylthiouracil
5. Proton pump inhibitors
6. Metoclopromide
7. Sodium chromoglycate
8. Cotrimoxazole
9. Amphotericin B
10. General toxicities of cytotoxic drugs and measures to ameliorate them
11. Bacterial drug resistance
12. Selective Estrogen Receptor Modulators (SERMs)

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Name two mucolytics and give their mechanism of action
14. Radical cure of vivax malaria
15. Mention three tocolytics and list three uses.
16. Giving the indication explain the rationale for the use of metronidazole with diloxanide furoate
17. Mention three adverse effects of Zidovudine.
18. Write three advantages of azithromycin over erythromycin
19. Cyproheptadine
20. Name three prostaglandin analogues with one different use for each
21. d-penicillamine
22. Name three Anti-H pylori drugs

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS PHASE II Degree Examination – DEC-2018

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

Forensic Medicine (RS2 & RS3)

QP Code: 1087

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

LONG ESSAYS **2 x 10 = 20 Marks**

1. Explain the term "Feigned Insanity". Mention four salient features to differentiate between true Insanity from Feigned Insanity. Add a note on civil and Criminal responsibility of an Insane.
2. Explain the mechanism of action of cyanide on human body. Describe the signs, symptoms, treatment and postmortem appearances of acute Cyanide poisoning.

SHORT ESSAYS **10 x 5 = 50 Marks**

3. Forensic entomology
4. Plumbism
5. Sec 320 IPC
6. Clinical features and antidotes for Oxalic acid poisoning
7. Lucid interval and its Medicolegal importance
8. Difference between Entry and Exit wound in a Rifled firearm injury
9. Genital findings in a deflorated woman
10. Dying declaration
11. Indications and Rules of MTP act 1971
12. Rigor Mortis and its Medicolegal application

SHORT ANSWERS **10 x 3 = 30 Marks**

13. Types of Inquest
14. Poroscopy and cheiloscopy
15. Negative autopsy and its causes
16. Adultery
17. Foamy liver
18. Precipitin test
19. Coup and contre-coup injuries and its Medicolegal Importance
20. Bloodless dissection of neck
21. Adipocere formation
22. Professional Death sentence

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