Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – II Degree Examination - June 2016

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 Macrocytic Anemia. Describe the laboratory diagnosis of Pernicious Anemia. (2+8)
2. Discuss the causes and pathogenesis of Generalized Oedema. (2+8)

SHORT ESSAYS 10 x 5 = 50 Marks

3. Phagocytosis
4. Differences between Benign and Malignant tumours
5. Blood picture in Acute Lymphoblastic Leukemia
6. Types of Emboli
7. Hyaline change
8. Chemical mediators of Inflammation
9. Turner's syndrome
10. Disseminated Intravascular Coagulation
11. Indeterminate Leprosy
12. Rhinosporidiosis

SHORT ANSWERS 10 x 3 = 30 Marks

13. Ketonuria
14. Osmotic Fragility test
15. Oligospermia
16. Pancytopenia
17. Exfoliative Cytology
18. Prothrombin Time
19. Glycosylated Hemoglobin
20. Buffy Coat
21. Hay's Sulphur test
22. Westargren's method of ESR

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - **JUNE 2016**

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. A 10 years old boy presented with history of Sore Throat followed by Migratory Poly-arthritic and Subcutaneous Nodules.
   a) What is your probable diagnosis?
   b) Discuss the etiopathogenesis.
   c) Mention the morphological features in the target organ.
2. Classify Bone tumours. Discuss the pathogenesis and morphological features of Osteosarcoma.

SHORT ESSAYS 10 x 5 = 50 Marks

3. Morphology of different stages of Pneumonia
4. Write a brief note on Hodgkin's Lymphoma.
5. Etiopathogenesis of Peptic Ulcer
6. Etiopathogenesis and pathology of Alcoholic Liver disease
7. Morphology of Rodent Ulcer
8. Pheochromocytoma
9. Gross and microscopic features of Multinodular Goitre
10. Light microscopy in Minimal change disease
11. Morphology of Seminoma
12. Schirrhous Carcinoma of Breast

SHORT ANSWERS 10 x 3 = 30 Marks

13. Retinoblastoma
14. Types of Emphysema
15. Microscopic features of Wilm's tumour
16. Cholelithiasis
17. Morphology of Amoebic Liver Abscess
18. Barrett's Oesophagus
19. Causes of Splenomegaly
20. Meckel's Diverticulum
21. Krukenberg tumour
22. Enumerate Cystic diseases of Kidney.

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE 2016

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. Define Disinfection and Sterilization. Enumerate commonly used Disinfectants in Health Care setup. Describe where and how are these used. (1+1+2+6)
2. Define and Classify Hypersensitivity reactions. Discuss Type IV Hypersensitivity. (2+4+4)

SHORT ESSAYS — 10 x 5 = 50 Marks

3. Bacterial Spore
4. Contributions of Louis Pasteur
5. Describe methods of transfer of Genetic Material in Bacteria.
6. Passive Immunity
7. Structure and function of Immunoglobulin A (Ig A)
8. Lesions produced by Staphylococcus aureus
9. Weil – Felix test
10. Types of Escherichia Coli producing Diarrhoea – Diarrhogenic E.coli
11. Toxigenicity tests for Corynebacterium diphtheriae
12. Laboratory diagnosis of Leptospirosis

SHORT ANSWERS — 10 x 3 = 30 Marks

13. Principle and uses of Dark Ground Microscopy
14. Blood Agar
15. Methods of transport of Specimen for laboratory diagnosis of Cholera
16. Tuberculin test
17. Describe laboratory diagnosis of Bacillary Dysentery.
18. Enumerate organisms causing Acute Pyogenic Meningitis.
19. Helicobacter pylori
20. Biomedical waste management
21. Enumerate mechanisms of Autoimmunity.
22. Diphtheria, Pertussin and Tetanus toxoid (DPT) vaccine

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE 2016

Time: Three Hours | Max. Marks: 100 Marks

Microbiology – Paper II (RS2 & RS3 Scheme)

Q.P. 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 morphology, life cycle, pathogenicity, and laboratory diagnosis of Plasmodium Falciparum. (2+2+3+3)
2. Classify Human Herpes Viruses. Describe morphology, pathogenicity and laboratory diagnosis of Herpes Simplex Virus. (3+2+3+2)

SHORT ESSAYS 10 x 5 = 50 Marks

3. Opportunistic Fungal infections
4. Sporothrix Schenkii
5. Candidiasis
6. Viral Replication
7. Antigenic shift and antigenic drift
8. Oncogenic Viruses
9. Polio Vaccines
10. Strongyloides stercoralis
11. Microfilaria
12. Hymenolepis nana

SHORT ANSWERS 10 x 3 = 30 Marks

13. Trichomonas Vaginalis
14. Enumerate Parasites causing Diarrhoea.
15. Liver Fluke
16. Tropical Pulmonary Eosinophilia
17. Cysticercosis
18. Biological vector
19. Adenovirus
20. Varicella – Zoster virus
21. Monitoring progression of HIV infection
22. Lacto Phenol Cotton Blue (LPCB) stain

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE 2016

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. Define Bioavailability. Describe the factors affecting Oral Bioavailability of the drug.
2. Classify Antihypertensive drugs. Describe the adverse effects and uses of Calcium Channel Blockers. Add a note on the treatment of Hypertensive Emergency.

SHORT ESSAYS 10 x 5 = 50 Marks

3. Acute Morphine poisoning treatment and contraindications for Morphine usage
4. Mention different Antiplatelet drugs and discuss their mechanism of action
5. Drugs used for treatment of Obesity
6. What is Diuretic resistance? What are the approaches to overcome Diuretic resistance?
7. Mention ACE inhibitors and their therapeutic uses.
8. Selective Serotonin Reuptake Inhibitors (SSRIs)
9. Newer Antiepileptic drugs
10. What are the adverse effects of Beta-Blockers?
11. Mention the therapeutic uses of Sympathomimetic drugs.
12. Levodopa

SHORT ANSWERS 10 x 3 = 30 Marks

13. What is Elimination Half-life? Give examples of two drugs having short Half-life.
14. Write mechanism of action of Lithium and list two adverse effects.
15. Mention three drugs used in Preanaesthetic medication.
16. What are the important therapeutic uses of Hyoscine?
17. Why Atropine is not preferred for ophthalmoscopic examination of Retina in adults?
18. Rationale for using Physostigmine in Atropine poisoning.
19. Advantages of Low Molecular Weight Heparins
20. Mention three uses and two adverse effects of Diazepam.
21. What is the pharmacological basis for the use of Digoxin in Heart failure?
22. What are the therapeutic uses of Mannitol?

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE 2016

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 antitubercular drugs. Describe the mechanism of action, therapeutic uses and adverse effects of Rifampicin.
2. Classify corticosteroids and describe their pharmacological actions. Describe the adverse effects of long-term high dose corticosteroid therapy.

SHORT ESSAYS 10 x 5 = 50 Marks

3. Mechanism of action and uses of co-trimoxazole
4. Erythromycin
5. Albendazole
6. Drug treatment of acute amoebic dysentery and chronic amoebiasis
7. Sulfonylureas as antidiabetic drugs
8. H_2 receptor antagonists
9. Salbutamol
10. d-penicillamine
11. Metoclopramide
12. Oxytocin

SHORT ANSWERS 10 x 3 = 30 Marks

13. What are advantages of amoxicillin over Ampicillin?
14. Enlist three drugs for the treatment of scabies.
15. Name three clinical conditions for which tetracyclines will be your drugs of choice.
16. What is the indication for use of Clomiphene citrate? What are its adverse effects?
17. How do iodides act as antithyroid drugs? What are indications for their use?
18. Name two serotonin (5HT) antagonists. Give indications for use of any one of them.
19. Name an osmotic purgative. Give its indications.
20. What are the advantages of oral rehydration therapy in a case of diarrhoea?
21. Name three Disease Modifying Anti-Rheumatic Drugs (DMARD) used in treatment of rheumatoid arthritis.
22. What are the indications for use of Vitamin A?

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – JULY 2016

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. Discuss consent in medical practice. Write briefly on consumer protection act.
2. Define drowning. Describe the postmortem findings of a death due to drowning.

SHORT ESSAYS 10 x 5 = 50 Marks

3. Brain stem death
4. Exhumation
5. Disputed paternity
6. Medical termination of pregnancy Act of 1971
7. Sudden infant death
8. Objectives of medicolegal autopsy
9. Hallucination
10. Duties of doctor in case of suspected poisoning
11. Nitric acid poisoning
12. Cocaine poisoning

SHORT ANSWERS 10 x 3 = 30 Marks

13. Conduct money
14. Foot prints
15. Presumption of death
16. Restraint of mentally ill patient
17. Chop wounds
18. Death due to malnutrition
19. Transvestism
20. Defloration
21. Acute arsenic poisoning
22. Pethidine

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – II Degree Examination - DEC 2016

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. What is Embolism? Mention different types of Embolism with examples. Add a note on Air Embolism and Fat Embolism. (1+3+3+3 = 10 marks)
2. A 36 years old male presents with weakness, pallor and bleeding gums. His Hb was 7gm%, Total Leukocyte count 1,10,000/cu mm with many immature WBCs, which are positive for MPO, and Platelet count 22,000/cu mm.
   a) What is the most probable diagnosis and why?
   b) How do you classify this condition?
   c) What are the laboratory findings in such cases? (2+3+5 = 10 marks)

SHORT ESSAYS — 10 x 5 = 50 Marks

3. Pernicious Anaemia
4. Paraneoplastic syndrome
5. Phagocytosis
6. Angiogenesis (Neovascularisation)
7. Vitamin A deficiency
8. Arachidonic Acid Metabolites in Inflammation
9. Anticoagulants used in Haematology Lab
10. Down's syndrome
11. Haemophilia A
12. Coomb's test

SHORT ANSWERS — 10 x 3 = 30 Marks

13. Enumerate functional platelet disorders.
14. Importance of Toll like receptors
15. Special stains for Amyloid
16. Name different Lesions associated with Asbestosis.
17. Enumerate the Cancers associated with Chronic Smoking.
18. Barr body
19. Examples for Pathological Hyperplasia
20. Name six causes for Monocytosis.
21. Importance of Urine examination in Jaundice patients
22. Organs involved in Graft Versus Host Disease (GVHD)

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - DEC 2016

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. Enumerate the different Ulcerative Lesions of Intestine. Describe the etiopathogenesis of Inflammatory Bowel disease. Tabulate the differences between Crohn's disease and Ulcerative Colitis. (3+3+4 = 10 marks)
2. A 48 years old lady presented with Bleeding per Vagina. Per Speculum examination showed an Ulceroproliferative growth involving the external os which bleeds on touch.
   a) What is the most probable diagnosis and why?
   b) What is the etiopathogenesis of this condition?
   c) Add a note on screening method for this condition. (2+4+4 = 10 marks)

SHORT ESSAYS — 10 x 5 = 50 Marks

3. Vegetations of Heart
4. Kidney lesions in Diabetic Nephropathy
5. Phaeochromocytoma
6. Pathogenesis and morphology of Grave's disease – Thyroid
7. Etiopathogenesis of Bronchial Asthma
8. Fibroadenoma – Breast
9. Rheumatoid Arthritis
10. Basal Cell Carcinoma
11. Meningioma
12. Ewing's Sarcoma

SHORT ANSWERS — 10 x 3 = 30 Marks

13. Amoebic Liver Abscess – morphology
14. Components of Fallot's Tetrology
15. Molluscum Contagiosum
16. Causes for Subarachnoid Haemorrhage
17. Microscopic features of Schwannoma
18. Paget's disease of Bone
19. Krukenberg tumour
20. Prognostic factors in Breast Carcinoma
21. Lesions associated with H. Pylori
22. Pilomatrixoma

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC 2016

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. Define and classify Hypersensitivity. Describe type III hypersensitivity. (1+2+7).
2. Classify Mycobacteria. Discuss the laboratory diagnosis of Pulmonary tuberculosis. Add a note on multidrug resistant tuberculosis. (2+6+2)

SHORT ESSAYS 10 x 5 = 50 Marks

3. Bacterial spore
4. Moist heat sterilization
5. Q fever
6. Pathogenesis of Gas gangrene
7. Specific tests for Syphilis
8. Alternate complement pathway
9. Mechanisms of innate immunity
10. Non suppurative diseases by Group A streptococci
11. Laboratory diagnosis of cholera
12. Non gonococcal urethritis

SHORT ANSWERS 10 x 3 = 30 Marks

13. Haptens
14. Transferable drug resistance
15. Structure of Gram negative bacterial cell wall
16. Rat bite fever
17. Passive agglutination test
18. Laboratory diagnosis of pneumococcal meningitis
19. Diphtheria, Pertussis and Tetanus (DPT) vaccine
20. Enterotoxigenic Escherichia coli
21. Uses and interpretations of Widal test
22. Vincent’s angina

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC 2016

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. List important Arboviral diseases found in India. Describe pathogenesis and laboratory diagnosis of Dengue virus infection. (3+3+4)
2. Classify Nematodes. Describe the life cycle, pathogenesis and laboratory diagnosis of Hookworm infection. (2+3+3+2)

SHORT ESSAYS 10 x 5 = 50 Marks

3. Aspergillosis
4. Infections caused by candida albicans and laboratory diagnosis
5. Classification of Biomedical waste
6. Cysticercosis
7. Chicken pox
8. Methods of cultivation of viruses
9. Viral diarrhoea
10. Eumycetoma
11. Laboratory diagnosis of Echinococcosis
12. Balantidiasis

SHORT ANSWERS 10 x 3 = 30 Marks

13. Black water fever
14. List the sites of Extraintestinal amoebiasis
15. Laboratory diagnosis of Trichomonal vulvovaginitis
16. Enumerate parasites infecting lungs
17. List rapid diagnostic tests for malaria
18. Laboratory diagnosis of mumps
19. Negri body
20. Name three viruses transmitted by blood.
21. Laboratory diagnosis of cryptococcosis
22. Enumerate diseases caused by adenoviruses

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination – DEC 2016

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. Define Bioavailability. Describe factors affecting Bioavailability.
2. Classify anti-cholinergic drugs. Mention therapeutic uses and adverse effects of atropine. Name two atropine substitutes with one use for each.

SHORT ESSAYS 10 x 5 = 50 Marks

3. Advantages and disadvantages of intravenous route
4. Inhalational anaesthetic agents
5. Lignocaine
6. Therapeutic uses and adverse effects of Prazosin
7. Treatment of congestive cardiac failure
8. Therapeutic uses and adverse effects of Thiazide diuretics
9. Calcium Channel Blockers
10. Parenteral iron therapy
11. Atypical antipsychotics
12. Phenytoin Sodium

SHORT ANSWERS 10 x 3 = 30 Marks

13. Acetazolamide
14. Nasal decongestants
15. Angiotensin receptor blockers
16. Mention six uses of reversible anti-cholinesterase drugs.
17. Metoprolol
18. Rationale of using morphine in Left Ventricular Failure
19. Low Molecular Weight Heparin
20. Advantages of benzodiazepines over Barbiturates
21. Treatment of methyl alcohol poisoning
22. Advantages of Selective Serotonin Reuptake Inhibitors over Tricyclic Antidepressants

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC 2016

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 antimalarials. Explain the mechanism of action, adverse effects and uses of chloroquine.
2. With the help of diagram of thyroid hormone synthesis, mark the site of action of various antithyroid drugs. Explain mechanism of action adverse effects and uses of radioactive iodine.

SHORT ESSAYS 10 x 5 = 50 Marks

3. Inhaled glucocorticoids
4. Proton pump inhibitors
5. Uses and adverse effects of oxytocin
6. Protease inhibitors
7. Mechanism of action of hormonal contraceptives
8. Second generation antihistamines
9. Glycopeptide antibiotics
10. Mention adverse effects of first line drugs used in tuberculosis
11. Albendazole
12. Methods to ameliorate toxicity due to anticancer drugs

SHORT ANSWERS 10 x 3 = 30 Marks

13. Anabolic steroids
14. Alpha-glucosidase inhibitors
15. List three nitroimidazoles
16. Therapeutic uses of Vitamin C
17. Desferrioxamine
18. Ondansetron
19. Mention three prostaglandin analogues and list their three uses.
20. List three leukotriene antagonists
21. Rationale of using folinic acid with methotrexate
22. Name three Selective Estrogen Receptor Modulators (SERMs) and list their uses

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - DEC 2016

Time: Three Hours | Max. Marks: 100 Marks

Forensic Medicine (RS2 & RS3)

Q.P. 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 and classify Insanity. What is Delusion? Describe the various types of delusions.
2. What are the symptoms and signs, mechanism of action, diagnosis and treatment of Organophosphorus Compound Poisoning?

SHORT ESSAYS — 10 x 5 = 50 Marks

3. Plumbism
4. Magistrate inquest
5. Filigree burns
6. Cephalic index
7. Rigor Mortis
8. PNDT Act
9. Difference between pathological and medico legal autopsy
10. Stab wounds
11. Dowry death
12. Sodomy

SHORT ANSWERS — 10 x 3 = 30 Marks

13. Aconite
14. Fetus compressus
15. Positive signs of pregnancy
16. Precipitate labour
17. Lynching
18. Complications of criminal abortion
19. Immersion foot
20. Phantom pregnancy
21. Covering
22. Ricochet bullet

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