Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – II Degree Examination - JUNE 2017

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 Metastasis? Describe the pathways of spread of tumours. Describe the mechanism of Cancer Metastasis. (2+4+4 = 10 marks)
2. A 58 years old pure vegetarian male presented with Pallor, weakness, red baldy tongue and numbness in the fingers. His Hb was 8gm% and MCV was 110fl.
   a) What is your diagnosis and why?
   b) What is the etiopathogenesis of this condition?
   c) What are the laboratory findings in such cases? (2+4+4 = 10 marks)

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

3. Types of Necrosis with examples
4. Laboratory findings in Systemic Lupus Erythematosis (SLE)
5. Role of Complements in Inflammation
6. Vitamin C deficiency
7. Laboratory diagnosis of Genetic diseases
8. Bone Marrow Aspiration study
9. Pathogenesis of Thrombosis
10. Leukemoid reaction
11. Fine Needle Aspiration Cytology
12. Klinefelter syndrome

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

13. Give three examples for Free Radicals and Antioxidants.
14. Diagnostic criteria for Multiple Myeloma
15. Cardinal signs of Inflammation
16. Causes for Microcytic Hypochromic Anaemia
17. Cytological findings in Malignant Pleural Effusion
18. Basophilia
19. Target cells
20. Name different Cancers associated with Chronic Alcoholism
21. Special (Cytochemical) stains used in Acute Leukemias
22. Give two examples each for different Mendelian Inheritance.

Rajiv Gandhi University of Health Sciences, Karnataka

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MBBS (Phase - II) Degree Examination - JUNE 2017

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 Ovarian tumours. Describe the pathology of Papillary Serous Cyst-adenocarcinoma of Ovary. (2+8)
2. A 10 year old boy developed Migratory Arthritis of Large Joints and features of Pancarditis, after 10 days, following episode of Pharyngitis.
   a) What is the probable diagnosis?
   b) Describe the etiopathogenesis of underlying disorder. (2+8)

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

3. Gastric Carcinoma
4. Alcoholic Liver disease
5. Bronchial Asthma
6. Germ Cell tumours of Ovary
7. Complications of Gall Stones
8. Thyrotoxicosis
9. Intestinal Amoebiasis
10. Lung Abscess
11. Premalignant Lesions of Squamous Cell Carcinoma of Skin
12. Pyogenic Meningitis

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

13. Benign Prostatic Hyperplasia
14. Medullary Carcinoma of Thyroid
15. Kidney changes in Malignant Hypertension
16. Classification of Hodgkin's disease
17. Causes for Splenomegaly
18. Phaeochromocytoma
19. Colloid Goitre
20. Fibroadenoma – Breast
21. Leiomyoma – Uterus
22. Scar Endometriosis

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE 2017

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 Infection. Name the different types of Infection. Describe sources of Infection. (1+3+6)
2. Enumerate the organisms causing Pyogenic meningitis. Describe in detail pathogenesis and laboratory diagnosis of Meningococcal meningitis. (3+3+4)

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

3. Plasmid
4. Autoimmunity
5. Precipitation reactions
6. Laboratory diagnosis of Pulmonary Tuberculosis
7. Methods of Anaerobiosis
8. Mycoplasma pneumoniae
9. Standard tests for Syphilis
10. Lepromin test
11. Bacterial Spore
12. Laboratory diagnosis of Typhoid fever

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

13. Heterophile Antigen
14. Differences between El Tor and Classical Vibrio
15. Classification of Staphylococci
16. Prevention of Tetanus
17. Draw a neat labeled diagram of IgM
18. Electron Microscope
19. Methods of obtaining pure culture of Bacteria
20. Selective Media
21. Significant Bacteriuria
22. Non-suppurative infections of Streptococcus pyogenes

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - JUNE 2017

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. Enumerate Parasites found in Blood. Describe life cycle and laboratory diagnosis of Plasmodium falciparum. (3+7)
2. Enumerate Hepatitis Viruses. Describe morphology, pathogenicity and laboratory diagnosis of Hepatitis B Virus. (3+2+2+3)

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

3. Cryptococcus neoformans
4. Immunoprophylaxis of Rabies
5. Hydatid cyst
6. Mycetoma
7. Interferons
8. Cultivation of Viruses
9. Concentration methods for Stool
10. Dermatophytes
11. Japanese Encephalitis
12. Giardia lamblia

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

13. Classification of Fungi
14. Oral thrush
15. Antigenic shift and drift
16. Structure of HIV
17. Fungal slide culture
18. Inclusion body
19. Rhinosporidiosis
20. NIH Swab
21. Cysticercus Cellulosae
22. Difference between Amoebic and Bacillary Dysentery

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - **JUNE 2017**

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 sympathomimetics. Describe the cardiovascular actions and therapeutic uses of adrenaline.
2. Classify antiepileptic drugs. Describe mechanism of action, therapeutic uses and adverse effects of phenytoin sodium. Mention newer antiepileptic drugs.

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

3. Enzyme induction and its clinical significance
4. Transdermal route of drug administration
5. Treatment of Organophosphorus poisoning
6. Uses of alpha adrenergic blockers
7. Mechanism of action, therapeutic uses and adverse effects of Ramipril
8. Mechanism of action and therapeutic uses of Furosemide
9. Fibrinolytic drugs
10. Therapeutic uses and adverse effects of morphine
11. Clonidine
12. Factors modifying drug action

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

13. Three differences between Barbiturates and Benzodiazepines
14. Succinyl choline
15. Atropine substitutes
16. Mention six uses of anti-platelet drugs.
17. Name three uses of verapamil.
18. Treatment of paracetamol poisoning
19. Explain the pharmacological basis for combining Carbidopa with Levodopa.
20. Six uses of centrally acting muscle relaxants
21. Rosuvastatin
22. Treatment of cardiogenic shock

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination – June 2017

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. Describe the antibacterial spectrum, mechanism of action, therapeutic uses and adverse effects of fluoroquinolones.
2. Classify antithyroid drugs. Describe the mechanism of action and adverse effects of (a) Carbimazole, (b) Radioactive Iodine.

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

3. Aminopenicillins
4. Therapeutic uses of Metronidazole
5. Drug treatment of chloroquine resistant malaria
6. Griseofulvin
7. Metformin
8. Selective Estrogen Receptor Modulators (SERMs)
9. Therapeutic uses and adverse effects of H_1 blockers
10. Sodium chromoglycate
11. Bulk purgatives
12. Oxytocics

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

13. Explain why chloroquine is effective in extra-intestinal amoebiasis but not effective in intestinal amoebiasis.
14. What are adverse effects of aminoglycosides?
15. Why ethambutol is not used in children below six years?
16. Name two centrally acting cough suppressants. Why they are not used in a patient having productive cough?
17. Explain how Sucralfate acts. Can it be used along with antacids? Give reason.
18. Enumerate therapeutic uses of prostaglandins.
19. What are indications for use of Dimercaprol? Where is it contraindicated?
20. Name two uricosuric drugs. How do they produce uricosuric effect?
21. How does Metoclopramide produce its antiemetic effect? What is its central toxicity?
22. Explain the terms 'Antiseptic' and 'Disinfectant' with examples.

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination – JUNE 2017

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 infanticide. Describe methods usually adopted for carrying out infanticide. Add a note on macerated fetus.
2. Define burns and classify. How will you differentiate between ante mortem and post mortem burns? What are the causes of death due to burns?

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

3. Treatment of oxalic acid poisoning
4. Chronic mercurial poisoning
5. Narcoanalysis
6. Botulism
7. Hallucination
8. Blood groups and medico legal importance
9. Management of snake bite
10. Judicial hanging
11. Coup and Counter coup injury
12. Res ipsa loquitor

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

13. Impulse
14. Conduct money
15. Juvenile court
16. Suspended animation
17. Foot prints
18. Negative autopsy
19. Pseudo virgin
20. Tribadism
21. Euthanasia
22. Locoparentis

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC - 2017

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 and classify leukemias. Discuss the clinical manifestations and Laboratory diagnosis of chronic lymphocytic leukemia.
2. Enumerate the features and causes of acute inflammation. Describe in detail the cellular events in acute inflammation.

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

3. Granulomatous inflammation.
4. Causes of hemolytic anemia
5. Paraneoplastic syndromes
6. Down's syndrome
7. Pathogenesis of septic shock
8. Differences between benign and malignant tumour
9. Bone marrow findings in megalobasltic anemia
10. Amyloidosis
11. Enumerate the components of Virchow's triad.What are the fates of thrombus?
12. Haemochromatosis

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

13. CSF findings in tubercular meningitis.
14. Name the chemical tests done in serum and urine examination to diagnose diabetic ketoacidosis.
15. Indications for bone marrow aspiration
16. Name transfusion transmitted diseases
17. Principle of direct and indirect Coomb's test. Mention the conditions where these will be positive.
18. Principle and advantages of Hemoglobin estimation by Cyanmethemoglobin method.
19. Name two stains used in cytology and their applications.
20. Name tests to diagnose hemolysis
21. Semen analysis & findings in a normal semen
22. Anticoagulants used in hematology.

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - Dec - 2017

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. Describe the morphological features and complications of Alcoholic Liver disease.
2. Classify tumours of Breast. Discuss the etiopathogenesis and pathology of Infiltrating Duct Carcinoma.

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

3. Features and complications of Fallot's Tetralogy
4. Pathogenesis and complications of Bronchiectasis
5. Morphology of Pleomorphic Adenoma
6. Role of Helicobacter Pylori in Gastric Ulcer
7. Pathogenesis and morphology of Crohn's disease
8. Adult Polycystic Kidney disease
9. Discuss in brief etiopathogenesis of Malignant Melanoma.
10. Carcinoid syndrome
11. Grave's disease
12. Pathogenesis, morphology and radiological features of Osteoclastoma

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

13. Morphology of Cervical Intraepithelial Neoplasia
14. Gross and microscopic features of Dysgerminoma
15. Tubercular Osteomyelitis
16. Types of Renal Calculi
17. Zollinger-Ellison syndrome
18. Role of HbA1C estimation in Diabetes
19. Cryptorchidism
20. Causes of Hydronephrosis
21. Leukoplakia of Oral Cavity
22. Importance of Reid index

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - DEC-2017

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 and Classify Culture Media with examples. (5+5)
2. Define Immunoglobulin. Describe structure and function of the five classes of Immunoglobulins. (2+4+4)

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

3. Bacterial Capsule
4. Enumerate organisms commonly causing Hospital Acquired infections.
5. Mechanisms of Innate Immunity
6. Precipitation reactions.
7. Classify and enumerate Immunodeficiency diseases.
8. Enumerate Lesions produced by Neisseria Gonorrhoea.
9. Laboratory diagnosis of Gas gangrene
10. Classification of Chlamydia
11. Laboratory diagnosis of Enteric fever
12. Laboratory diagnosis of Pulmonary Tuberculosis

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

13. Non specific serological test for Syphilis
14. Laboratory diagnosis of Acute Rheumatic Fever
15. Halophilic Vibrios
16. Methods to prevent Swarming of Proteus Species
17. Bacterial Zoonoses
18. Elek's gel precipitation test
19. Hot Air Oven
20. Transposons (Jumping Genes)
21. Labelled diagram of Bacterial Growth Curve
22. Principle and uses of Polymerase Chain Reaction (PCR)

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination - DEC-2017

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 morphology, pathogenesis and laboratory diagnosis of HIV. (2+4+4 = 10 marks)
2. Enumerate Hemoparasites. Describe the life cycle and laboratory diagnosis of Plasmodium vivax. (2+4+4 = 10 marks)

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

3. Aspergillosis
4. Hydatid cyst
5. Laboratory diagnosis of Hepatitis B infection
6. Viral Inclusion Bodies
7. Free Living Amoebae
8. Cryptococcosis
9. Delhi Boil
10. Laboratory diagnosis of Rabies
11. Life cycle of Trichuris trichiura
12. Otomycosis

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

13. Balantidium coli
14. Sabouraud's Dextrose Agar (SDA)
15. Clinical manifestations of Rhinosporidiosis
16. Serological tests for Kala-Azar
17. Casoni's test
18. Chyluria
19. Enumerate three Oncogenic viruses.
20. Lassa fever
21. Draw a neatly labelled diagram of a Bacteriophage.
22. Laboratory diagnosis of Dengue

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination – DEC 2017

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 Anticholinergics. Describe the therapeutic uses and adverse effects of Atropine. (4+3+3)
2. Describe mechanism of action of Benzodiazepines as sedative and hypnotic and discuss its adverse effects and uses. (3+3+4)

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

3. Clinical significance of Plasma Protein binding
4. Drug Synergism
5. Uses and adverse effects of Calcium Channel Blockers
6. Clonidine
7. Nasal decongestants
8. Mechanism of action and adverse effects of Organic Nitrates
9. Uses and adverse effects of Thrombolytics
10. Potassium Sparing Diuretics
11. Advantages and disadvantages of Nitrous Oxide Anaesthesia
12. Mechanism of action and adverse effects of Lignocaine

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

13. Placebo
14. Disadvantages of Fixed Dose combinations
15. Mechanism of action of Pralidoxime
16. Naloxone
17. Uses of Valproic Acid
18. Advantages of Selective Serotonin Reuptake Inhibitors
19. Mention Parenteral Iron preparations.
20. Baclofen
21. Plasma half life
22. Bile Acid Binding Resins

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Rajiv Gandhi University of Health Sciences, Karnataka

MBBS (Phase - II) Degree Examination – DEC 2017

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. What are the common characteristics of aminoglycoside antibiotics? Describe the mechanism of action, therapeutic uses and adverse effect of gentamicin.
2. Describe the mechanism of action and adverse effects of oral contraceptive pills. What instructions should be given to the patient regarding their use?

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

3. Therapeutic uses and adverse effects of chloroquine
4. Third generation cephalosporins
5. Albendazole
6. Isonicotinic acid hydrazide (INH)
7. Insulin preparations
8. Non-sedative H_1 receptor blockers
9. Drug treatment of status asthmaticus
10. Passive immunization
11. Proton pump inhibitors
12. Allopurinol

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

13. What are advantages of Azithromycin over Erythromycin?
14. Write the mechanism of action of Dapsone and write two adverse effects.
15. What is the rationale for combining Clavulanic acid with Amoxycillin?
16. What are advantages and disadvantages of radioactive iodine as an antithyroid drug?
17. What are the adverse effects of corticosteroids on bones and skeletal muscles?
18. List two indications for use of Ondansetron? What is its mechanism of action?
19. Name two emollient laxatives. Give two indications and two adverse effects.
20. List three topical antifungal agents and write three uses.
21. Explain why Ergometrine can not be used for induction of labour.
22. What are the indications for use of Vitamin C?

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE II Degree Examination – DEC-2017

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 live birth. Explain the various signs of live birth.
2. Describe the clinical features and treatment of organophosphate insecticide poisoning.

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

3. Morphine poisoning
4. Hydrochloric acid poisoning
5. Delusion
6. McNaughten's rule
7. Consent
8. Police inquest
9. Postmortem lividity
10. Laceration
11. Subarachnoid haemorrhage
12. Dowry deaths

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

13. Spectroscopy
14. Direct examination
15. Types of witnesses
16. Scars
17. Pathological postmortem examination
18. Rifling
19. Lynching
20. Bansdola
21. Masochism
22. Sterility

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