Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

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

PATHOLOGY - PAPER - I (Revised Scheme)

QP Code: 1056

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

LONG ESSAY **2 X 9 = 18 Marks**

1. Define necrosis. Describe various types of necrosis giving examples
2. Classify Leukemias. Discuss chronic myeloid leukemia in detail

SHORT ESSAY **10 X 5 = 50 Marks**

3. Aplastic anemia
4. Abnormalities of shape of red blood cells
5. Haematogenous spread of cancer
6. Mechanisms of apoptosis
7. Differences between carcinoma and sarcoma
8. Idiopathic thrombocytopenic purpura (ITP)
9. Screening of blood unit before transfusion
10. Pathogenesis of cardiac edema
11. Tertiary syphilis
12. Leukocyte transmigration

FR. MULLER CENTRAL LIBRARY

SHORT ANSWERS **16 X 2 = 32 Marks**

13. Turner's syndrome
14. Lipofuscin pigment
15. Transudate and exudates
16. Organization of thrombus
17. Uremia and azotemia
18. Enlist laboratory findings in haemolytic anemia
19. Chyluria
20. Mast cell in inflammation
21. Fixatives used in cytopathology
22. Hamartoma
23. Westergrens tube
24. CD_4 count in AIDS
25. Epstein – Barr virus (EBV) and cancers
26. Microscopic examination of semen
27. Volume of urine
28. Metastatic calcification

* * * * *

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

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

PATHOLOGY - PAPER II (Revised Scheme)

QP Code: 1057

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

LONG ESSAY **2 X 9 = 18 Marks**

1. Classify ovarian tumours. Describe germ cell tumours
2. Mention chronic obstructive lung diseases (COPDs). Discuss emphysema

SHORT ESSAY **10 X 5 = 50 Marks**

3. End stage kidney
4. Ewings sarcoma
5. Aschoff nodule
6. Hepatoblastoma
7. Morphology of ulcerative colitis
8. Classification of liver cirrhosis
9. Malignant melanoma
10. Multinodular goiter
11. Nodular sclerosis Hodgkins lymphoma
12. Aortic lesions in atherosclerosis

FR. MULLER CENTRAL LIBRARY

SHORT ANSWERS **16 X 2 = 32 Marks**

13. Spread of testicular neoplasms
14. Enzyme markers for myocardial infarction
15. Gynecomastia
16. Pagets disease of bone
17. Etiology of cresentic glonerulonephritis
18. Gouty tophus
19. List lesions of rheumatic valuvlitis
20. Etiology of breast cancer
21. Radiological findings in osteosarcoma
22. Staging of colorectal carcinoma
23. Microscopy mixed tumour of parotid
24. Bartholin's cyst
25. Sezare syndrome
26. Etiology of hepatocellular carcinoma
27. Kimmelsteiel – Wilson lesion
28. Microscopy of Lepromatous Leprosy

* * * * *

(10)

1058

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

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

MICROBIOLOGY - PAPER I (Revised Scheme)

QP Code: 1058

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

LONG ESSAY **2 X 9 = 18 Marks**

1. What is genetic variation? Describe the various methods of gene transfer and its role in drug resistance in bacteria
2. Classify Mycobacteria. Describe the morphology, cultural characteristics, pathogenesis and laboratory diagnosis of Mycobacterium tuberculosis

SHORT ESSAY **10 X 5 = 50 Marks**

3. Bacterial capsule
4. Chemical disinfectants
5. Anaerobic culture methods
6. Mechanisms of innate immunity
7. Type III hypersensitive reaction
8. Radio immuno assays
9. Helicobacter pylori
10. Laboratory diagnosis of Shigella
11. Prophylaxis of tetanus
12. Chlamydia trachomatis

FR. MULLER CENTRAL LIBRARY

SHORT ANSWERS **16 X 2 = 32 Marks**

13. Name four selective media
14. Oxidase test
15. Applications of electron microscope
16. Draw and label section of lymph node
17. Mention four properties of IgG
18. Disorders of phagocytosis
19. Name four tests for identification of Streptococcus pneumoniae
20. Satellitism
21. Four human diseases caused by Rickettsia
22. Name four bacteria causing Gas Gangrene
23. Lyme's disease
24. Draw and label bacterial spore
25. Uses of non ionizing radiations
26. Applications of Human Lecucyte Antigen typing
27. Coryne bacterium ulcerans
28. Non Pathogenic treponemes

* * * * *

(II)

1059

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2008

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

MICROBIOLOGY - PAPER II (Revised Scheme)

QP Code: 1059

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

LONG ESSAY **2 X 9 = 18 Marks**

1. Classify cestodes. Describe the life cycle, pathogenesis and laboratory diagnosis of Echinococcus Granulosus
2. Enumerate the viruses causing hepatitis? Describe the morphology, laboratory diagnosis and prevention of hepatitis B

SHORT ESSAY **10 X 5 = 50 Marks**

3. V-Z virus
4. Epstein-Bar virus
5. Embryonated egg
6. Slow viral diseases
7. Dermatophytes
8. Chlamydospore
9. Rhinosporidiosis
10. Laboratory diagnosis of Amoebiasis
11. Enterobius vermicularis
12. Trichomonas vaginalis

FR. MULLER CENTRAL LIBRARY

SHORT ANSWERS **16 X 2 = 32 Marks**

13. Name different cell lines used for cultivation of viruses
14. Herpes simplex type 2
15. Name four viruses transmitted by Arthropodes
16. Viruses causing diarrhoea
17. Fungi infecting eye
18. Amplifier host
19. Wood's lamp
20. Name the viruses causing skin lesions
21. Penicillium – Diagram
22. Egg of taenia – Diagram
23. Name the different species of Trypanosomes
24. Liver fluke
25. Viruses causing conjunctivitis
26. Pathogenecity of hook worm
27. Ectothrix and endothrix
28. Diagram of Gametocyte of P. Falciparum

* * * * *

(12)

1060

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2008

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

PHARMACOLOGY - PAPER I (Revised Scheme)

QP Code: 1060

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

LONG ESSAY **2 X 9 = 18 Marks**

1. Describe the drug treatment of Glaucoma giving pharmacological rationale for each drug
2. Classify diuretics giving suitable examples from each class. Enumerate therapeutic uses of Thiazide diuretics. What are the complications of diuretic therapy?

SHORT ESSAY **10 X 5 = 50 Marks**

3. Factors modifying drug action
4. Dissociative anaesthesia
5. Mechanism of anticoagulant action and uses of warfarin sodium
6. Centrally acting skeletal muscle relaxants
7. Sodium valproate
8. Merits and demerits of using adrenaline along with local anaesthetic
9. Mechanism of action of Digoxin in congestive cardiac failure
10. Atypical antipsychotics
11. Four indications for parenteral iron therapy
12. Simvastatin

FR. MULLER CENTRAL LIBRARY

SHORT ANSWERS **16 X 2 = 32 Marks**

13. Rationale for use of angiotensin converting enzyme (ACE) inhibitors in hypertension
14. What is prodrug? Give two examples
15. Uses of selective beta 2 agonists
16. Rationale for preferring diazepam over phenobarbitone as sedative
17. Drug induced Parkinsonism
18. Rationale for use of Dopamine in cardiogenic shock
19. Four adverse effects of phenothiazines
20. Rationale for use of heparin in deep vein thrombosis
21. What is succinylcholine apnoea?
22. Nimodipine is used in subarachnoid haemorrhage
23. Four salient features of clonidine
24. Rationale for avoiding morphine in head injury
25. What is zero order kinetics? Give two examples
26. Mechanism of action of Cholinesterase reactivators
27. Four salient features of Lignocaine
28. What is Gene therapy?

* * * * *

(13)

1061

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2008

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

PHARMACOLOGY - PAPER II (Revised Scheme)

QP Code: 1061

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

LONG ESSAY **2 X 9 = 18 Marks**

1. Describe the spectrum of activity, adverse effects and therapeutic uses of Fluoroquinolones
2. Classify insulin preparations. Describe the mechanism of action and adverse effects of insulin

SHORT ESSAY **10 X 5 = 50 Marks**

3. Proton pump inhibitors
4. Adverse effects of prolonged glucocorticoid therapy
5. Mast cell stabilizers
6. Lepra reaction
7. Mechanism of resistance to antibiotics
8. Doxycycline
9. Therapeutic uses of chloroquine
10. Advantages of Azithromycin over other macrolides
11. Uses of H_1 antihistaminics
12. Merits and demerits of radioactive iodine in therapy of hyperthyroidism

FR. MULLER CENTRAL LIBRARY

SHORT ANSWERS **16 X 2 = 32 Marks**

13. Explain mechanism of action of L-asparginase with one indication for it's use
14. Dangers expected in offspring if tetracyclines are given during pregnancy
15. Mechanism of action of aminophylline in bronchial asthma
16. What is a "minipill"?
17. Rationale for giving vit B-6 with isonicotinic acid hydrozide (INH) in tuberculosis
18. Name any two chelating agents giving one indication of each
19. Tinidazole
20. Hyaluronidase
21. Calcitonin
22. Treatment of round worm infestation
23. Clomiphene citrate
24. Name two immunosuppressants giving one indication of each
25. Pharyngeal demulcents
26. Name two commonly used tocolytic agents giving two adverse effects of any one
27. Rationale for use of gold salts in rheumatoid arthritis
28. Uses of Bromoergocriptine

* * * * *

(14)

1062

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - January 2008

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

FORENSIC MEDICINE (Revised Scheme)

QP Code: 1062

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

LONG ESSAY **2 X 9 = 18 Marks**

1. What are the legal duties of a doctor while treating a case of suspected poisoning? Discuss general principles of treatment of acute poisoning
2. Enumerate immediate signs of death. Discuss changes occurring in the muscles after death

SHORT ESSAY **10 X 5 = 50 Marks**

3. Magistrate inquest
4. MC Naughten's rule
5. Cross Examination
6. Causes of impotence and sterility in the female
7. Immediate restraint of mentally ill person
8. Types of fractures of skull
9. Informed consent
10. Sign of recent delivery in the living
11. Primary impact injury
12. Euthanasia

FR. MULLER CENTRAL LIBRARY

SHORT ANSWERS **16 X 2 = 32 Marks**

13. Difference in penetrating and perforating injuries. Give examples
14. Abortion stick
15. Bestiality
16. Malingering
17. Maceration
18. Atavism
19. Voyeurism
20. Paradox gun
21. Causes of death in hanging
22. Dying deposition
23. Suspended animation
24. Lust murder
25. Lip prints
26. CONDUCT MONEY
27. Botulism
28. Bansdola

* * * * *

(15)

1081_2008_1_S42

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

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

PATHOLOGY - PAPER I (Revised Scheme II)

QP Code: 1081

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Classify carcinogens and describe in detail chemical carcinogenesis
2. Classify Hemolytic anaemias. Write the pathogenesis and morphology of sickle cell anaemia

SHORT ESSAY **10 X 5 = 50 Marks**

3. Dystrophic calcification
4. Cytokines
5. Vascular events in acute inflammation
6. Fate of thrombus
7. Kleinfelter's syndrome
8. Hydatidcyst
9. Type IV hypersensitivity
10. Vitamin A deficiency
11. Idiopathic thrombocytopenic purpura
12. Polycythemia vera

FR. MULLER CENTRAL LIBRARY

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

13. Mention three hemoparasites
14. Comb's test
15. Significance of Hemoglobin Electrophoresis in anaemias
16. What are Romanowsky stains? Give examples
17. Write the bone marrow findings in multiple myeloma
18. Mention the CSF findings in tuberculous meningitis
19. Write the principle behind Benedict's qualitative test for sugar
20. Importance of exfoliative cytology
21. What is low fixed specific gravity of urine? Write its importance
22. What are the crystals found in urine?

* * * * *

(16)

1082_2008_1_S26

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

[Max. Marks: 100]

: 3 Hrs.

PATHOLOGY - PAPER II (Revised Scheme II)

QP Code: 1082

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

G ESSAY **2 X 10 = 20 Marks**

A 8 year old boy was admitted with history of puffiness of face and passing of red coloured urine, following upper respiratory tract infection 2 weeks earlier. Urine examination showed moderate proteinuria and hematuria

a. What is your most probable diagnosis
b. Describe the etiopathogenesis of the condition
c. Give the morphology of the organ affected
d. List the investigations that you would do to confirm diagnosis

Describe the etiopathogenesis, morphology of carcinoma of colon. List the precancerous conditions of carcinoma colon.

ORT ESSAY **10 X 5 = 50 Marks**

Etiopathogenesis of atherosclerosis
Etiology of carcinoma cervix
Morphology of dsygerminoma
Neuroblastoma
Phyllodes tumour
Carcinoid tumour
Lobar pneumonia – etiology, stages and gross morphology
Serologic markers of acute viral hepatitis B
Dissecting aneurysm
Chondrosarcoma

FR. MULLER CENTRAL LIBRARY

ORT ANSWERS **10 X 3 = 30 Marks**

Gross morphology of carcinoma breast
Gross morphology of kidney in hydronephrosis
Microscopy of Hodgkin lymphoma – lymphocytic predominance type
Etiology of carcinoma liver
Cholelithiasis – types and complications
Microscopy of Warthin's tumour with diagram
Tabulate the differences between prehepatic and posthepatic jaundice
Microscopy of Hydatidiform mole
Sequestrum
Fallot's tetralogy – components and complications

* * * * *

(17)

1083_2008_1_S43

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

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

MICROBIOLOGY - PAPER I (Revised Scheme II)

QP Code: 1083

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Classify Hypersensitivity reactions. Describe Type I hypersensitivity reaction
2. Classify Mycobacteria. Describe the pathogenesis and laboratory diagnosis of pulmonary tuberculosis

SHORT ESSAY **10 X 5 = 50 Marks**

3. Transduction
4. Louis Pasteur
5. Autoclave
6. Heterophile agglutination tests
7. Cytokines
8. Toxins and enzymes produced by Staphylococcus aureus
9. Malignant pustule
10. Diarrhogenic Escherichia coli
11. Gram stain
12. Laboratory diagnosis of gonorrhoea

FR. MULLER CENTRAL LIBRARY

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

13. Immunoglobulin G
14. ASO test
15. Transport media
16. Bacterial spore
17. Prophylaxis against Diphtheria
18. Bacterial filters
19. Cellwall of gram positive bacteria
20. Lepromin test
21. Lyme disease
22. Halophilic vibrio

* * * * *

(18) 1084_2008_1_S44

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

me: 3 Hrs. [Max. Marks: 100]

MICROBIOLOGY - PAPER II (Revised Scheme II)

QP Code: 1084

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

NG ESSAY **2 X 10 = 20 Marks**

. Classify Herpes viruses. Describe pathogenesis and lab diagnosis of diseases caused by Herpes simplex virus

. Define PUO and describe the lab diagnosis of pyrexia of unknown origin in detail

HORT ESSAY **10 X 5 = 50 Marks**

. Rapid diagnostic techniques of Malaria
. Varicella zoster
. Lab diagnosis of polio
. Presumptive coliform test
. Japanese encephalitis
. HCV
. Dermatophytes
0. Opportunistic fungal infection in HIV patients
1. Dog tape worm
2. Trichinella spiralis

FR. MULLER CENTRAL LIBRARY

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

3. Cytopathic effects (CPE)
4. Human Papilloma virus
5. Polio vaccines
6. Significant bacteruria
7. Tuberculosis meningitis
8. Lab diagnosis of HIV in new born
9. Cryptosporidium
0. General characters of Trematodes
1. Universal barrier precautions
2. Food poisoning

* * * * *

(19)

1085_2008_1_S42

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

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

PHARMACOLOGY - PAPER I (Revised Scheme II)

QP Code: 1085

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Classify β-blockers. Describe their adverse effects and endocrine uses. Explain the pharmacological basis for their use in hypertension and heart failure
2. Describe the factors modifying drug dose and effects

SHORT ESSAY **10 X 5 = 50 Marks**

3. Plasma substitutes in shock
4. Drug treatment of absence seizures
5. Various dosage forms and routes of administration of nitrates
6. Parenteral iron therapy
7. Depolarizing neuromuscular blocking agents
8. Angiotensin receptor blockers
9. Dopamine agonists in parkinsonism
10. Drugs used for prophylaxis of migraine
11. I.V. anaesthetics for induction of anaesthesia
12. Disulfiram in chronic alcoholism

FR. MULLER CENTRAL LIBRARY

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

13. Amlodipine
14. Diazepam
15. Gemfibrozil
16. Fluoxetine
17. Scopolamine
18. Tramadol
19. Antidotes to anticoagulants
20. Centrally acting antihypertensives
21. Spironolactone
22. Enzyme induction

* * * * *

1086_2008_1_S42

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

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

PHARMACOLOGY - PAPER II (Revised Scheme II)

QP Code: 1086

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Classify cephalosporins. Describe the antibacterial spectrum, therapeutic uses and adverse effects of third generation cephalosporins
2. Describe the various types of hormonal oral contraceptives available for use. Describe the mechanism of action, adverse effects and contraindications of the combined pill

SHORT ESSAY **10 X 5 = 50 Marks**

3. Drugs in filariasis
4. Metocloperamide
5. Multi-drug therapy regimen in leprosy
6. Second generation sulphonylureas
7. Treatment of acute attack of gout
8. Long acting β2-agonists in asthma
9. Indications for prostaglandins
10. Azole antifungal agents
11. Topical glucocorticoids
12. Proton pump inhibitors

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

13. Co-trimoxazole
14. Fexofenadine
15. Folic acid
16. Azithromycin
17. British Anti-Lewisite (BAL)
18. Imipenem
19. Oxytocin
20. Methotrexate
21. Cyclosporine
22. Diloxanide furoate

FR. MULLER MEMORIAL CENTRAL LIBRARY

* * * * *

(21)

1087_2008_1_S41

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - January 2008

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

FORENSIC MEDICINE - PAPER II (Revised Scheme II)

QP Code: 1087

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Classify firearms. Draw a neat labeled diagram of the appearance of the entry wound caused by rifled firearm fired from a distance of 8 cms. Describe the purpose and medicolegal importance of rifling
2. Classify the poisons belonging to the 'Irritant' group with one example each. Describe the first aid measures and the hospital management of cobra bite

SHORT ESSAY **10 X 5 = 50 Marks**

3. Contributory negligence
4. Plant penicillin
5. Mc Naughten's rule
6. Cephalic index
7. External features of antemortem wet drowning
8. Rigor mortis
9. Malingering
10. Summons
11. Macerated foetus
12. Findings in a habitual passive agent

FR. MULLER CENTRAL LIBRARY

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

13. Universal antidote
14. Dowry death
15. Illusion
16. Rigor mortis
17. Locard's principle of exchange
18. Professional secrecy
19. Battered baby syndrome
20. Viability
21. Leading questions
22. Molecular death

* * * * *