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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - February 2007

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 metastasis. Discuss the different modes of metastasis.
2. Mention the different pathophysiologic categories of edema. Discuss the pathogenesis of cardiac edema.

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

3. Discuss anticoagulants used in hematology
4. Define gangrene and mention the differences between dry and wet gangrene
5. Chemotaxis
6. Difference between Tuberculoid and Lepromatous leprosy
7. Klinefelter's syndrome
8. Mechanism of autoimmune diseases
9. Pathogenesis of Sickle cell disease
10. FAB & WHO classification of acute myelogenous leukemia
11. Peripheral smear and bone marrow findings in ITP
12. Packed cell volume

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

13. Heart in fatty change
14. Definition of acute inflammation
15. Complications of wound healing
16. Fate of primary complex
17. Hutchinson's triad
18. Decompression sickness
19. Microscopic features of CVC lung
20. Opportunistic infections in HIV patients
21. Precancerous lesions
22. List tumor suppressor genes
23. Fine needle aspiration cytology
24. Spleen in amyloidosis
25. Morphology of intestine in typhoid fever
26. Importance of peripheral smear examination
27. LE cell
28. Physical examination of urine

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1057_2007_1_S13

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - February 2007

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. Enumerate lytic lesions of bone. Discuss gross and microscopy of osteoclastoma.
2. Discuss lobular & medullary carcinoma of breast.

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

3. Subarachnoid hemorrhage
4. Basal cell carcinoma.
5. Dermatofibrosarcoma protuberans
6. Acute gout.
7. Cushing's syndrome.
8. Ectopic pregnancy.
9. Endometrial hyperplasia.
10. Acute hemorrhagic pancreatitits.
11. Haemochromatosis.
12. Acute appendicitis.

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

13. Familial polyposis syndromes
14. Amoebic ulcer
15. Enumerate four microscopic variants of renal cell carcinoma
16. Write 4 conditions when renal stones occur
17. Focal segmental glomerulosclerosis
18. Four examples of paraneoplastic syndromes
19. Pneumocystis carinii pneumonia
20. Oral glucose tolerance test (give only indications)
21. Ghon's lesion
22. Libmann Sack's endocarditis
23. Jones major criteria
24. Blood urea nitrogen
25. CSF in tubercular meningitis
26. Write 4 causes of massive splenomegaly
27. What is reactive lymphadenitis
28. Sequale of myocardial infarction

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13 (24) 1058_2007_1_S02

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - February 2007

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ne: 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.

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

Enumerate various antigen- antibody reactions. Describe agglutination reactions.

Mention the general properties of the family enterobacteriaceae. Describe the pathogenesis and diagnosis of enteric fever.

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

. Delayed type hypersensitivity
. Bacterial flagella
. Endotoxins
. Halophilic vibrios
. Major histocompatibility complex
. Epidemic typhus
. Nagler's reaction
). Methicillin resistant staphylococcus aureus
L. Lymphogranuloma venereum
2. Immunofluorescence

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

3. Lyme disease
4. Zoonotic disease
5. Catalase test
5. Lesions caused by group 'B' streptococci
7. Runt disease
3. L forms
. Name four live attenuated vaccines
). Name four gram positive cocci found in chains
L. C-reactive protein
2. Urease test
3. Stains used for corynebacterium diphtheriae
4. Cutaneous anthrax
5. Differential media with an example
5. Pasteurization
7. Macrophage
3. Extrinsic incubation period.

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(25)

1059_2007_1_S03

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - February 2007

me: 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.

)NG ESSAY **2 X 9 = 18 Marks**

Describe life cycle and laboratory diagnosis of echinococcus grannulosus.

Discuss the pathogenesis, laboratory diagnosis and prophylaxis of rabies.

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

Lab diagnosis of fungal infections.

Rotavirus.

Candidiasis.

Cultivation of viruses.

Kala-azar.

Lab diagnosis of acute hepatitis B virus infection.

Lab diagnosis of malignant tertian malaria.

. Toxoplasmosis.

. Cysticercus cellulosae.

. Opportunistic mycoses.

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

. Morphology of trichomonas vaginalis.

. Balantidium coli.

. Name four DNA viruses.

. Cytopathic effect (CPE)

. Use of embryonated egg in the laboratory.

. Inclusion bodies.

. Prions

. Larva migrans

. Two differences between Coxsackie "A" and Coxsackie "B" viruses.

. Two examples of arborviral diseases.

. Acute follicular conjunctivitis.

. Gamma – interferon.

. Antigenic drift.

Presumptive coliform test.

Paul Bunnel test.

Loa Loa.

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(26) 1060_2007_1_S12

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - February 2007

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. Classify the antihypertensive agents. Write the mechanism of action and adverse effects of sodium nitroprusside.
2. Classify the drugs used in the treatment of glaucoma. Write the mechanism of action and adverse effects of any one of them.

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

3. Pharmacogenetics
4. Compliance
5. Bupivacaine
6. Merits and demerits of Propofol
7. Sodium valproate
8. Esmolol
9. Adenosine
10. Cheese reaction
11. Baclofen
12. Opioid antagonists

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

13. Folic acid should not be used alone in pernicious anaemia
14. Indications for parenteral iron therapy
15. Warfarin is not effective in vitro as anticoagulant
16. Noradrenaline is not lifesaving as adrenaline in anaphylactic shock
17. Adrenaline is contraindicated in heart failure
18. Spironolactone is used in hepatic cirrhosis with oedema
19. Frusemide is used in treatment of hyper calcaemia
20. Acetazolamide has a self limiting diuretic effect
21. List two fibrinolytic inhibitors
22. Hydrochlorothiazide is contraindicated in diabetic patients. Why?
23. Nifedipine is used along with Atenolol in angina pectoris
24. List two drugs used in hypertensive emergencies
25. Topical minoxidil is used in male pattern alopecia
26. Thiopentone sodium has a brief duration of action. Explain
27. Quinidine causes paradoxical tachycardia when used alone in atrial fibrillation
28. Rationale for use of disulfiram in chronic alcoholism

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1061_2007_1_S12

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - February 2007

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.

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

1. Classify cephalosporins. Write their mechanisms of action and therapeutic uses.
2. Outline the mechanisms of action of drugs used in the treatment of constipation.

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

3. Norfloxacin
4. Cotrimoxazole
5. Adverse effects of aminoglycosides
6. Mechanisms of action of angiotensin in converting enzyme inhibitors
7. Therapeutic uses of antihistaminics
8. Mucolytics
9. Desferrioxamine
10. Colchicines
11. L – asparagines
12. Glucagons

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

13. Lugol's iodine is used pre-operatively in hyperthyroidism
14. Chloroquine is not effective in intestinal amoebiasis
15. Tamoxifen is used in breast carcinoma
16. Antitubercular drugs are used in combination
17. Soluble insulin is preferred for treatment of diabetic ketoacidosis
18. Praziquantel is contraindicated in ocular cysticercosis
19. Adverse effects of metformin
20. Uses of invermectin
21. Uses of calcitonin
22. Neomycin is used in hepatic coma
23. Tetracycline should not be used along with milk
24. Side effects of zidovudine
25. Advantages of combined contraceptive pills
26. Hydrocortisone is used in addision's disease
27. Uses of imatinib
28. Rationale for using Griseofulvin in dermatophytoses

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(28)

1062_2007_1_S01

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - February 2007

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. Define Rape. Describe the findings on a Rape Victim girl aged 16 years ?
2. Describe the medical and legal responsibilities of a Doctor in a case of suspected poisoning ?

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

3. Clinical features of Datura poisoning.
4. Signs and symptoms of Strychnine poisoning.
5. Features of Battered Baby syndrome.
6. Post mortem lividity.
7. Intra cranial Haemorrhages.
8. Preservation of viscera in a suspected case of death due to poisoning.
9. Privileged communication.
10. Testamentary capacity.
11. Dying declaration.
12. Super imposition.

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

13. Warning notice.
14. Novus actus interveniens
15. Summons
16. Cadaverial spasm
17. Exhumation
18. Negative autopsy
19. Positive signs of pregnancy
20. False Virgin
21. Transvestism
22. Dry drowning
23. Applications and limitations of DNA finger prints.
24. Takayama test.
25. Cot Death.
26. Fabricated injury.
27. Xanthoproteic reaction.
28. Run amock.

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Rajiv Gandhi University of Health Sciences, Karnataka

1081_2007_1_S25

M.B.B.S. PHASE - II Degree Examination - February 2007

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

PATHOLOGY - PAPER - I (Revised Scheme 2)

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. Describe the mode of healing by secondary union. List the factors which influence repair. Tabulate the differences between primary and secondary unions.
2. A 60 year old man was admitted with a pathological fracture. On examination he was found to be anemic. Laboratory examination showed ESR: 100 mm/hr, X-ray – multiple lytic lesions. Peripheral smear showed increased rouleax formation of the red cells and thrombocytopenia. Bone marrow examination confirmed the diagnosis.
   a. What is your most probable diagnosis?
   b. What the other hematological and urinary findings that would be positive in this condition?
   c. Describe the bone marrow findings in this condition.

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

3. Pathologic calcification
4. Caseous necrosis
5. Role of arachidonic acid metabolities in acute inflammation
6. Klinefelter syndrome
7. Hemophilia
8. Peripheral smear and bone marrow findings in Vitamin B 12 deficiency anemia
9. Pathogenesis of endotoxic shock
10. Staining characteristics of amyloid
11. Phagocytosis
12. FAB classification of acute leukemia

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

13. Microscopy of CVC lung with a diagram
14. Microscopy of tuberuclous granuloma with a diagram
15. Direct coomb's test – procedure and conditions where it is positive
16. Type II hypersensitivity reaction
17. Peripheral smear finding in Chronic myeloid leukemia
18. Enumerate 6 lesions seen in cardiovascular syphilis
19. Microscopy of lepromatous leprsy
20. Hematogenous spread of malignat tumours
21. Enumerate 6 tumours markers giving one example of tumour associated with each
22. Bone marrow finding in ITP

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(30)

1082_2007_1_S

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - February 2007

Time: 3 Hrs. [Max. Marks : 100

PATHOLOGY - PAPER II (Revised Scheme 2)

QP Code: 1082

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

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

1. A 35 year old man was admitted with history of painless cervical and axillary lymphadenopathy. He had history of loss of weight, fever and night sweats and was found to have cutaneous anergy. There was no hepatosplenomegaly.
   a. What is your most probable diagnosis?
   b. Give the classification of the condition
   c. Describe the morphology of any two types
2. Describe the etiology, gross and microscopy of gastric ulcer. List the complications of gastric ulcer.

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

3. Benign nephrosclerosis
4. Etiology of Hepatocellular carcinoma
5. Warthin's tumour
6. Teratoma ovary
7. Emphysema – definition, types and etiology
8. Osteoclastoma
9. Pheochromocytoma
10. Etiopathogenesis of Rheumatic carditis
11. Renal changes in Diabetes mellitus
12. Etiology of carcinoma of cervix

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

13. Classification of bone tumours
14. Microscopy of meningioma
15. Laboratory findings of acute viral hepatitis
16. Microscopy of seminoma
17. Gross morphology of carcinoma of kidney
18. Laboratory findings in nephritic syndrome
19. Involucrum
20. Gross appearance of adult polycystic kidney
21. Microscopy of basal cell carcinoma
22. Gross morphology of carcinoma colon

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1083_2007_1_S22

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - February 2007

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

MICROBIOLOGY - PAPER I (Revised Scheme 2)

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 Antigen Antibody Reactions. Describe in detail Agglutination Reaction with Examples.
2. Enumerate the agents causing watery diarrhea. Describe the pathogenesis and Laboratory Diagnosis of Cholera.

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

3. Mutation
4. Robert Koch's contribution to Medicine.
5. Bacterial Growth Curve.
6. Anaerobic culture methods.
7. Precipitation Reactions in the diagnosis of infections.
8. Type IV Hypersensitivity.
9. Neisseria gonorrhoeae.
10. Weil's Disease
11. TRIC Agents.
12. Laboratory diagnosis of Typhoid Fever.

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

13. Immunoglobulin M
14. Coagulase test.
15. Diagnosis of Rheumatic fever with interpretation.
16. M'Fadyean's Reaction.
17. Naglers Reaction
18. Chemical Disinfectants.
19. Bacterial Capsule
20. Enrichment Media
21. Kirby Bauer Method.
22. Cell Wall of Gram Negative Bacteria.

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1084_2007_1_S22

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - February 2007

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

MICROBIOLOGY - PAPER II (Revised Scheme 2)

QP Code: 1084

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

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

1. Describe the Morphology, Pathogenesis and Laboratory Diagnosis of HIV.
2. Enumerate Parasites found in blood. Describe the Life cycle and Laboratory diagnosis of *Plasmodium vivax*.

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

3. Dengue Virus
4. Non-Neural Rabies Vaccine
5. Serological markers of Hepatitis B and its detection.
6. Mycotic Mycetoma
7. Life Cycle of *Ancylostoma duodenale*
8. Infections caused by Coxsackie Virus.
9. Invasive Amoebiasis
10. Prion Diseases
11. Blood Culture Media and its applications
12. *Pneumocystis carinii*

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

13. Tzanck smear
14. Reynolds Braude Phenomenon
15. Name three agents causing opportunistic mycoses
16. Pathogenesis of *Toxoplasma gondii*
17. Milk ring test
18. Name six Protozoa cysts found in stool
19. Salt floatation test
20. Oral Polio Vaccine
21. Name three viral infections where antigens are detected in clinical samples
22. Draw and Label Influenza Virus

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1085_2007_1_S22

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - February 2007

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

PHARMACOLOGY - PAPER I (Revised Scheme 2)

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 Antihypertensive drugs with examples for each group. Explain mechanism of action, therapeutic uses and adverse effects of Angiotensin Converting enzyme (ACE) inhibitors.
2. Classify Anticholinergic drugs with examples for each group. Describe pharmacological actions, therapeutic uses and adverse effects of Atropine.

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

3. Explain protein binding of drugs with suitable examples. Give its clinical importance.
4. Explain basis for use of Nitroglycerine in Angina pectoris. Enumerate routes of administration and unwanted effects.
5. Lignocaine – mechanism of action, indications for use and various routes of administration and two side effects.
6. Carbamazepine – indications for use and side effects.
7. Drug - Drug antagonism – Define, mention the types and mechanisms with examples.
8. What are Fibrinolytic agents? Give examples – mechanisms and their uses.
9. Mention Beta$_2$ agonists and write their therapeutic uses and side effects.
10. Mention plasminogen activators with their therapeutic indications and side effects.
11. What are atypical antipsychotics? Mention examples of advantages over the older ones.
12. Mention organophosphorous compounds. How do you treat organophosphorous poisoning?

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

13. State the basis for the use of Pilocarpine in glaucoma. Mention two adverse effects.
14. State reasons – Chlorpromazine is an antiemetic but is not useful in motion sickness.
15. State reasons – Dopamine is preferred to noradrenaline in circulatory failure.
16. Mention advantages and disadvantages of sublingual route of drug administration.
17. What is neuroleptanalgesia? What are the drugs used for it?
18. What is Atracurium? How is it eliminated from the body? Write indications for its use.
19. Methadone – explain the basis for its use in heroin dependence.
20. Malignant Hyperthermia. Mention the drugs causing this condition and outline the treatment.
21. Mention two COMT (Catechol – O – Methyl transferase) inhibitors in the treatment of Alzheimer's disease. Mention two adverse effects.
22. Orphan drugs – define & give examples.

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1086_2007_1_S22

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - February 2007

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

PHARMACOLOGY - PAPER II (Revised Scheme 2)

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 oral hypoglycemic drugs with examples under each group. Describe the mechanism of action and adverse effects of Sulfonylurea. Mention two drugs, which could interact with sulfonylureas.
2. Classify the drugs used in the treatment of fungal infections along with examples for each group. Describe the mechanism of action of Imidazole antifungal drugs with therapeutic uses and adverse effects of any one of them.

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

3. Semisynthetic penicillins and their therapeutic uses.
4. Name Aminoglycosides. Mention their therapeutic uses and adverse effects.
5. Name uterine stimulants and their therapeutic indications and specify toxicity of each drug.
5. Name proton pump inhibitors. Write their mechanism of action and their used with two adverse effects.
7. Enumerate types of oral contraceptive pills. Mention the adverse effects of combination pills.
3. Enumerate newer macrolide antibiotics. What are their advantages over older ones?
9. List indications for use of Metronidazole. Specify the condition where it is combined with diloxanide furoate. What is the rationale for the combination?
0. List three advantages for Doxycycline over Oxytetracycline. Name two conditions where tetracyclines are used as first line of drugs.
1. Name immunosuppressants, their therapeutic indications along with adverse effects.
2. Name therapeutic uses and adverse effects of Corticosteroids.

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

3. Name four differences between propylthiouracil and carbimazole.
4. Outline drug treatment of Cysticercosis?
5. Explain rationale for using Hexamine Mandelate in urinary tract infection but not in systemic infection.
5. Name four examples of second generation Flouroquinolones and four therapeutic uses.
7. Name three H_2 receptor blockers and three indications for their use.
3. Explain Mechanism of action of L-Asparginase with one indication for it's use.
9. Explain Mechanism of action of povidone iodine with four uses.
). Rationale for use of combination of Trimethoprim with Sulfamethoxazole.
1. Name first line drugs used in Leprosy with dosages.
2. Name four drugs used in the treatment of typhoid fever with dosages.

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1087_2007_1_S21

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. PHASE - II Degree Examination - February 2007

3 Hrs. [Max. Marks: 100]

FORENSIC MEDICINE (Revised Scheme 2)

QP Code: 1087

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

G ESSAY

2 X 10 = 20 Marks

Define infanticide. Enumerate various acts of omission and commission to cause death of infants.

Define toxicology. Discuss toxicological aspects of acute methyl alcohol poisoning. If the victim has died, enumerate autopsy examination findings.

RT ESSAY

10 X 5 = 50 Marks

Define grevous injury. Enumerate in detail, three injuries caused by sharp, blunt and pointed weapons.

Classify asphyxial deaths. Describe autopsy examination findings in a person who died due to drowning.

Differentiate between burns caused by dry heat, moist heat and chemicals.

Enumerate precautions to be taken while handling and performing autopsy examination on an HIV positive dead body.

Civil responsibility of the Insane.

Treatment of snake bite.

Semen analysis.

Dowry deaths.

Aconite poisoning.

Delusions.

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ORT ANSWERS

10 X 3 = 30 Marks

Types of Courts.

Cross examination.

Rules for consent.

Privileged communication.

Poroscopy.

Bite marks.

Enumerate and classify "post mortem changes".

Brain stem death.

Types of abrasions.

Osteometric board.

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1056_2007_2_S01

Rajiv Gandhi University of Health Sciences, Karnataka

(36)

M.B.B.S. PHASE - II Degree Examination - August 2007

ıe : 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.

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

Discuss Phagocytosis.
Discuss autoimmunity in relation to SLE.

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

ESR.
Tumor markers.
Free radical Injury.
Atrophy.
Peripheral smear and bone morrow findings in acute Myeloblastic Leukemia.
Angiogenesis in repair.
Coagulation cascade.
Pathogenesis of septic shock.
Semen Analysis.
Blood components.

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

Sickling test.
Target cell.
Define hypertrophy & hyperplasia.
Outcome of acute inflammation.
Hyperemia.
4 primary conditions associated with increased risk for thrombosis.
Enumerate the 3 major types of shock & 3 stages of shock.
Write 4 diseases associated with HLA.
Write the immune mechanism in type 1 hypersensitivity reaction.
Enumerate four causes of Microcytic RBC's.
Types of localized Amyloidosis.
Hamartoma.
Enumerate 4 examples of familial cancers.
What is fine needle aspiration cytology.
Caplan Syndrome.
Prions.

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1057_2007_2

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

Time: 3 Hrs. [Max. Marks : 1

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 Mar**

1. Describe the aetiopathogenesis, pathology and complications of atherosclerosis
2. Enumerate inflammatory diseases of small intestine. Describe pathology of Crohn's disease

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

3. Emphysema
4. Hyaline membrane disease
5. Alcoholic liver disease
6. Warthin's disease
7. Hodgkin's disease
8. Papillary carcinoma – thyroid
9. Fibro adenoma – breast
10. Ewing's tumor
11. Renal cell carcinoma
12. Leiomyoma – uterus

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

13. Causes of hypersplenomegaly
14. Chordoma
15. Basal cell carcinoma
16. Gout
17. Lepra cell
18. Laboratory diagnosis of chorio carcinoma
19. Dysgerminoma
20. CIN – Cervical Intraepithelial neoplasier
21. Benign cystic teratoma – ovary
22. Premalignant lesions of penis
23. Wilm's tumour
24. Actinomycosis
25. Malignant tumours seen in AIDS
26. Name important tumors of childhood
27. Name four metastatic tumors in liver
28. Enumerate types of gall stones

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1058_2007_2_S31

Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

: 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. Enumerate Antigen – Antibody reactions in vitro. Describe the precipitation reactions
2. Classify the Clostridia of medical importance. Describe the pathogenicity, laboratory diagnosis and prophylaxis of gas gangrene

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

3. Bacterial filters
4. Sequestrated antigens
5. Differences between Pneumo cocci and streptococcus viridans
6. Lyme disease
7. Atypical microbacteria
8. Commonly used disinfectants
9. Cell mediated immunity
10. Bacterial flagella
11. Laboratory diagnosis of Enteric fever
12. MRSA (Methicillin Resistant Staphylococcus Aureus)

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

13. Vincent's Angina
14. Diarroheagenic Eschcoli
15. Name four sporulating bacteria
16. Name four serological tests used in diagnosis of leptospirosis
17. Gram's staining and its application
18. Name 2 bacteria causing nosocomial infections
19. CRP (C Reactive Protein)
20. Louis Pasteur
21. Subset of T lymphocytes
22. Properdin
23. Cold sterilization
24. Blood culture
25. Laboratory diagnosis of tetanus
26. Artificial passive immunity
27. Name four autoantibodies
28. Viridans streptococci

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Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

Time: 3 Hrs.

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

1. Classify intestinal nematodes. Describe morphology, life cycle and laboratory diagnosis of infection caused by ascaris lumbricoides
2. Describe the morphology pathogenesis, laboratory diagnosis and immunoprophylaxis of rabies virus

SHORT ESSAY 10 X 5 = 50 Marks

3. Life cycle of Wuchereria bancrofti
4. Cultivation of viruses
5. Oriental sore
6. Madura foot
7. Universal precautions
8. Toxoplasma
9. Immunoprophylaxis against Polimyelitis
10. Slide culture technique for fungi
11. Life cycle of taenia solium
12. Hydatid cyst

SHORT ANSWERS

13. What is Larva Migrans
14. Antigenic drift
15. Pathogenicity of herpes simplex
16. Draw Egg of Enterobius Vermicularis
17. Germ tube test
18. Giardia Lamblia
19. Window period in HIV infection
20. Chlamydospores
21. Cyclops
22. Hepatitis 'A'
23. Rubella
24. Aseptic meningitis
25. Define Dimorphic fungi with 2 examples
26. Inclusion bodies
27. Name two viruses causing diarrhea
28. Name 4 opportunistic infections in AIDS

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1060_2007_2_S31

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

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. Classify Anticholinergic drugs according to their therapeutic applications. Describe the uses and adverse effects of atropine
2. Classify the antipsychotic drugs. Write the mechanism of action and clinical uses of chlorpromazine

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

3. Plasma protein binding of drugs and its clinical relevance
4. Therapeutic drug monitoring
5. Spinal anaesthesia
6. Atracurium
7. Adverse effects of stating
8. Treatment of septic shock
9. Uses of mannitol
10. Fibrinolytics
11. Amlodipine
12. Newer drug delivery systems

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

13. Levodopa ana not dopamine is used in Parkinsonism
14. Hydralazine caused an increase in heart rate in Hypertensive patients when used alone
15. Jerazosin is used in benign prostatic Hypertrophy
16. Low dose dopamine is used in cardiogenic shock
17. Depivefrine is used in Glaucoma
18. Flumazenil is used in Benzodiazepines poisoning
19. Advantages of fluoxetine over imipramine in depression
20. Demerits of Halothane as general anaesthetic
21. Tacrine is used in Alzheimer's disease
22. Naltrexone is used in chronic alcoholism
23. Digoxin is used in Paroxysmal supraventricular tachycardia
24. Diazoxide is used in Hypertensive emergencies
25. Propranolol is contraindicated in variant angina
26. Uses of nicorandil
27. Side effects of Lignocaine
28. Use of Aspirin in Myocardial infarction

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1061_2007_2_St

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - August 2007

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.

2 X 9 = 18 Marks

LONG ESSAY

1. Classify Alkylating Anticancer drugs with examples. Explain the mechanism of action. Enumerate four Therapeutic uses of anyone. Enlist commonly encountered adverse effects with Anticancer drugs.
2. Classify glucocorticoids with examples. Mention the Pharmacological actions, adverse effects and non Endocrine uses of Anyone.

10 X 5 = 50 Marks

SHORT ESSAY

3. Cloxacillin.
4. Glimepiride.
5. Desferrioxamine.
6. Metoclopramide.
7. Colchicines.
8. Acyclovir.
9. Cromolyn sodium.
10. Omeprazole.
11. Sequential blockade.
12. Oxytocin.

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16 X 2 = 32 Marks

SHORT ANSWERS

13. Basis for combining amoxyollin with Clavulinic Acid.
14. Name four drugs used to treat Typhoid fever
15. Explain the basis for multidrug treatment in Tuberculosis.
16. Explain the advantages of Doxycycline.
17. Mention the disadvantages of Radioactive Iodine.
18. Therapy of multibaciallary Leprosy - Explain.
19. Chemoprophylaxis of malaria - Explain.
20. 'Spindle Poisons'- explain with examples.
21. Enumerate adverse effects of Amphotericin-B.
22. Why Clomiphene is used in anovulatory infertility?
23. Name four newer Insulin preparations.
24. Mention four important indications for use of prostaglandins.
25. Name two newer macrolide antibiotics. Mention two advantages of these drugs over older Macrolides.
26. Explain the rationale for combining Pyridoxine with INH.
27. Explain the therapeutic uses of anabolic steroids.
28. How does Cetirizine differ from Diphenhydramine?

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1062_2007_2_S33

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

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. How time of death is important in medicolegal cases? Mention the methods of establishing the time since death
2. Describe the duties of a registered medical practitioner in a suspected case of acute poisoning

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

3. What is Locard's principle of exchange of trace evidence?
4. Write briefly on immediate restraint
5. Define inquest. Mention it's types
6. Define drug abuse. Name constituents of Canabis Indica
7. Define Barr body. Outline procedure of establishing sex of a person
8. Define professional misconduct and give some examples
9. Medicolegal aspects of Smothering
10. What is Vagal inhibition of the heart?
11. Phossy jaw
12. Signs of recent delivery

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

13. Sodomy
14. Impulse
15. Informed consent
16. Cross examination
17. Cocaine bugs
18. Delirium
19. Dactylography
20. Battered child
21. Grievous hurt
22. Contre-coup injury
23. Paternity tests
24. Adepocere formation
25. Ligature mark of typical hanging
26. Illusion
27. Traumatic Asphyxia
28. Nephrotoxic drugs

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1081_2007_2_S32

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

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

PATHOLOGY - PAPER – I
(Revised Scheme 2)

QP Code: 1081

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

2 X 10 = 20 Marks

LONG ESSAY

1. Define shock. Enumerate the types of shock & discuss the pathogenesis & morphological changes in shock.
2. Define and classify leukemias. Discuss peripheral blood smear, bone marrow and biochemical findings in chronic myeloid leukemia.

10 X 5 = 50 Marks

SHORT ESSAY

3. Metaplasia
4. Phagocytosis
5. Brown atrophy of heart
6. Cytokines
7. Diagnosis of AIDS
8. Fat embolism
9. Sago spleen
10. Aplastic anaemia
11. Down's syndrome
12. Tumor markers

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10 X 3 = 30 Marks

SHORT ANSWERS

13. Anticoagulants
14. Ulcer
15. Xanthoma
16. Autolysis
17. Exfoliative cytology
18. Hydatid cyst
19. Barr body
20. Angiogenesis
21. Reticulocyte
22. Rickets

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1082_2007_2_S3

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

Time: 3 Hrs. [Max. Marks : 100

PATHOLOGY - PAPER II
(Revised Scheme 2)

QP Code: 1082

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

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

1. Mention inflammatory diseases of large intestine. Describe etiopathogenesis and pathology of ulcerative colitis.
2. Write in detail the etiology, pathogenesis and complication of Rheumatic heart disease

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

3. Crohn's disease
4. Aneurysms
5. Gall stones
6. Meningioma
7. Rodent ulcer
8. Cervical Intraepithelial Neoplasia
9. Seminoma
10. Chronic osteomyelits
11. Toxic goitre
12. Pyelonephritis

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

13. Premalignant lesions of pelvis
14. Linitus Plastica
15. Typhoid ulcer
16. Dermoid cyst
17. Villous adenoma
18. Monckeberg's sclerosis
19. Reed stenbergs cell
20. Fibroadenoma
21. Adenomyosis
22. Warthins tumor

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1083_2007_2_S33

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

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

MICROBIOLOGY - PAPER I
(Revised Scheme 2)

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. Define and classify Sterilization. Describe the methods of sterilization by moist heat
2. Classify Mycobacteria. Describe the laboratory diagnosis of pulmonary tuberculosis

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

3. Bacterial flagella
4. Louis Pasteur
5. Beta lactamases and its importance
6. Immunological tolerance
7. Transplantation antigens
8. Cytokines
9. Pseudomonas
10. Bacterial meningitis
11. Helicobacter pylori
12. Infections caused by Escherichia coli

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

13. Enrichment medium
14. Bacterial capsule
15. Coomb's test
16. DPT vaccine
17. Macrophages
18. Diagrammatic representation of IgA
19. Catalase test
20. Bacteroides
21. Actinomycetes
22. Clostridium difficile

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1084_2007_2_S2

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - II Degree Examination - August 2007

Time: 3 Hrs. [Max. Marks: 100

MICROBIOLOGY - PAPER II (Revised Scheme 2)

QP Code: 1084

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

2 X 10 = 20 Marks

LONG ESSAY

1. List the Aroboviruses seen in India. Describe the epidemiology, clinical features and laboratory diagnosis of Dengue fever.
2. Name the different plasmodia that infect man. Describe the life cycle in man, clinical features and laboratory diagnosis of *P. falciparum* infection.

10 X 5 = 50 Marks

SHORT ESSAY

3. Specific tests for HIV infections
4. Viral transformation of cells.
5. Type C hepatitis
6. Clinical features and prevention of Varicella.
7. Serological tests for toxoplasmosis
8. Clinical features and diagnosis of *Cysticercus cellulosae*.
9. Pathogenesis of intestinal amoebiasis
10. Larva migrans.
11. Fungi imperfecti.
12. Lepromin test

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10 X 3 = 30 Marks

SHORT ANSWERS

13. Tissue culture
14. Phage typing
15. Serological tests for infectious mononucleosis
16. Congenital rubella syndrome
17. Primary amoebic meningo encephalitis
18. Cyst of *Giardia intestinalis*
19. Occult filariasis
20. Parasitic infections and malignancy
21. Sporotrichosis
22. Athletes foot

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1087_2007_2_S32

Rajiv Gandhi University of Health Sciences, Karnataka

M.B.B.S. Phase II Degree Examination - August 2007

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

FORENSIC MEDICINE
(Revised Scheme 2)

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. Enumerate any 6 types of skull fractures. Describe the mechanism of brain injuries. Add a note on 'Epidural Haemorrhage'
2. Describe the mechanism of action, manifestations and management of organophosphate insecticide poisoning

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

3. Privileged communication
4. Duties of a doctor in a suspected case of poisoning
5. Delusions
6. Anthropometry
7. Ligature mark in hanging and strangulation
8. Entomology of the cadaver
9. Warning notice
10. Dying declaration
11. Examination of the accused in a case of rape
12. Medical termination of pregnancy act of 1971

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

13. Skin incisions at autopsy
14. Medicolegal importance of age 12 years
15. Signs of recent delivery in the living
16. Confirmatory test for blood
17. Blood grouping in disputed paternity
18. Xanthoproteic reaction
19. Botulism
20. Café coronary
21. Complications of criminal abortion
22. Treatment of strychnine poisoning

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