

[KT 545]

AUGUST 2008

Sub. Code : 4066

SECOND M.B.B.S. DEGREE EXAMINATION

Revised (Non-Semester) Regulations

Paper VI – PHARMACOLOGY – II

Q. P. Code : 524066

Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. a. Classify anti malarial drugs.
b. Mechanism of action and Pharmacological actions of chloroquine.
c. Therapeutic uses and adverse effects of chloroquine.
2. a. Classify macrolide antibiotics.
b. Write the mechanism of action and Anti bacterial spectrum of Erythromycin.
c. Therapeutic uses and adverse effects of Erythromycin.

II. Write Short notes on :

(10 x 5 = 50)

1. Prokinetic drugs.
2. Drugs used in Bronchial Asthma and Write different techniques of Administration.
3. Fibrinolytic agents.
4. Tocolytic agents.
5. Alkylating agents and Therapeutic uses.
6. Retoconazole
7. Uricosuric Drugs.
8. Anti-Retroviral Drugs.
9. Doxycycline and their advantages over tetracyclines.
10. Flouroquinolones and their Therapeutic uses.

III. Short Answer Questions :

(10 x 2 = 20)

1. Adverse effects of Aminoglycosides.
2. Name two immunosuppresants and their uses.
3. Ivermectin Therapeutic uses.
4. Name two Anticancer antibiotic and write their therapeutic uses.
5. Name drugs of Third generation cephalosporin.
6. Dimercaprol.
7. Radio-active iodine.
8. Adverse effects of oral contraceptive pills.
9. Triple drug regime of peptic ulcer.
10. New routes of drug delivery system of insulin.

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Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. a. Classify penicillin group of antibiotics.
b. Write the mechanism of action and anti bacterial actions of aminopenicillins.
c. Therapeutic uses and adverse effects of ampicillin.
2. a. Classify anti amoebic drugs.
b. Write the mechanism of action and anti protozoal actions of Metronidazole.
c. Therapeutic uses and adverse effects of Metronidazole.

II. Write Short notes on :

(10 x 5 = 50)

1. Clarithromycin.
2. Mechanism and pharmacological actions of sulfonyl ureas.
3. Anti motility drugs.
4. Desferrioxamine.
5. Primaquine.
6. Ketoconazole.
7. Indications and adverse effects of oral contraceptive pills.
8. Rifampicin.
9. Uses and adverse effects of anabolic steroids.
10. Ovulation inducing agents.

III. Short Answer Questions :

(10 x 2 = 20)

1. Uses and toxicity of quinine.
2. Name two drugs used in motion sickness with the rationale.
3. Mention four 2nd generation cephalosporins.
4. Rationale of combining aluminium and magnesium salts in antacids.
5. Mention two anticancer antibiotics with their indication.
6. Mechanism of action of radio active iodine.
7. Name two drugs used in scabies with their route of administration.
8. Mention four inhalational corticosteroids.
9. Specific adverse effects of fluoroquinolones.
10. Mention two alpha glucosidase inhibitors and indication.

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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. a. Classify drugs used in diabetes mellitus.
b. Write the mechanism of action, uses of oral hypoglycemic drugs.
c. Enumerate DNA recombinant derived insulins.
2. a. Define aminoglycoside antibiotics and enumerate them.
b. Mechanism of action, common adverse effects of aminoglycosides.
c. Write the therapeutic uses of gentamicin.

II. Write Short notes on :

(10 x 5 = 50)

1. Third generation cephalosporins.
2. Drug regimen in H.Pylori.
3. Indications and contra indications of glucocorticoids.
4. Extra malarial uses of chloroquine and its rationale.
5. Anti thyroid drugs.
6. Oral contraceptives.
7. Define chemoprophylaxis give examples with rationale.
8. Pro kinetic drugs.
9. Sucralfate.
10. Repository preparations of penicillins.

III. Short Answer Questions :

(10 x 2 = 20)

1. Tetracyclines not used in young children – Why?
2. Two uses of D-Penicillamine.
3. Mention two topically used sulfonamides and its uses.
4. Ondansetran as an antiemetic in cancer chemo therapy.
5. Monoclonal antibodies as carriers.
6. Two uses and two adverse effects of vitamin-D.
7. Rationale of L-Asparaginase in malignancy.
8. Mention two tocolytic agents and its uses.
9. Therapeutic use and its rationale of finasteride.
10. Two indications of mebendazole.

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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. a) Classify anti tubercular drugs.
b) Mechanism of action and bacterial spectrum of action of rifampicin.
c) Explain short course treatment of tuberculosis.
2. a) Classify dopamine receptors and mention its agonists and antagonists.
b) Write mechanism of action and pharmacological actions of metaclopramide.
c) Therapeutic uses and adverse effects of metaclopramide.

II. Write Short notes on :

(10 x 5 = 50)

1. Proton pump inhibitors.
2. Amikacin.
3. Doxycycline.
4. Bacterial resistance.
5. Chloroquine.
6. Carbimazole.
7. Combined pill.
8. Hormone replacement therapy.
9. Fluconazole.
10. Cyclosporin.

III. Short Answer Questions :

(10 x 2 = 20)

1. DHF reductase inhibitors.
2. Antianerboic antibiotics.
3. Framycetin.
4. Radio-active iodine.
5. Oxytocin.
6. GNRH analogues.
7. Diloxanate furate.
8. Bromocryptine.
9. Vinca alkaloids.
10. Folinic acid.

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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. i) Enumerate the antimetabolites used in neoplastic diseases.
ii) Write the mechanism of action and therapeutic uses of Methotrexate.
iii) Add a note on treatment of Methotrexate toxicity.
2. i) Classify antithyroid agents.
ii) Mention the pharmacological actions and therapeutic uses of carbimazole.
iii) Add a note on radioactive iodine.

II. Write Short notes on :

(10 x 5 = 50)

1. INH.
2. Management of cerebral malaria.
3. Ketoconazole.
4. Treatment of scabies.
5. Management of diabetic ketoacidosis.
6. Selective Estrogen Receptor Modulators (SERMS).
7. Newer insulin preparations.
8. Low molecular weight heparins.
9. Vitamin – D.
10. British Anti-Lewisite (BAL).

III. Short Answer Questions :

(10 x 2 = 20)

1. Rationale for giving chloroquine and primaquine in acute vivax malaria.
2. Rationale for using clofazimine in lepra reaction.
3. Two Uses and Two adverse effects of metronidazole.
4. Why ciprofloxacin is contraindicated in children less than 8 yrs of age?
5. Two indications of albendazole.
6. Sulfonylureas are not effective in Type I diabetes mellitus.
7. What is grey baby syndrome?
8. Rationale for using Bromocriptine in acromegaly.
9. Ranitidine is preferred to cimetidine in peptic ulcer.
10. Cisplatin.

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Time : Three hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :

(2 x 15 = 30)

1. i) Enumerate Anti Tubercular Drugs.
ii) Write the Mechanism of Action and Adverse effects of any one standard drug.
iii) Write briefly on short course chemotherapy.
2. i) Classify Glucocorticoids.
ii) Mention Pharmacological actions of Glucocorticoids.
iii) Enumerate adverse effects and uses of Glucocorticoids.

II. Write Short notes on :

(10 x 5 = 50)

1. Adverse effects and uses of Metronidazole.
2. Anticancer antibiotics.
3. Clarithromycin.
4. Insulin Resistance.
5. Therapeutic uses of oxygen.
6. Bisacodyl.
7. Adverse effects of oral contraceptive pills.
8. Ketoconazole.
9. Ivermectin.
10. Bacterial drug resistance.

III. Short Answer Questions :

(10 x 2 = 20)

1. Mention two Injectable contraceptives.
2. Mention two Betalactamase inhibitors and their uses.
3. Name two drugs used in Anaerobic Infections.
4. Mention four Non malarial uses of chloroquine.
5. Name two Topical & two systemic drugs used in Psoriasis.
6. Write the mechanism of action and uses of Dimercaprol.
7. Mention two differences between oxytocin and Ergometrine.
8. Rationale in the use of Cotrimoxazole.
9. Mention two Monoclonal antibodies and their uses.
10. Justify the preference of Ranitidine over Cimetidine.

SECOND M.B.B.S. DEGREE EXAMINATION
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Time : Three hours**Maximum: 100 Marks**Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Essay Questions :**(2 x 15 = 30)**

1. i) What are the various methods of hormonal contraception?
ii) Discuss the mechanism of action of hormonal contraceptives.
iii) Mention the complications of contraceptive use.
2. i) Classify Antiamoebic drugs.
ii) Discuss the adverse effects and indications of Nitroimidazoles used in Amoebiasis.
iii) Write briefly on Nitazoxanide.

II. Write Short notes on :**(10 x 5 = 50)**

1. Pyrazinamide.
2. Drugs used in TYPHOID fever.
3. Insulin resistance.
4. Diethylcarbamazine citrate.
5. Methotrexate.
6. Prednisolone.
7. Propylthiouracil.
8. Ranitidine.
9. Raloxifene.
10. Pyrimethamine.

III. Short Answer questions :**(10 x 2 = 20)**

1. Mention two calcineurin inhibitors. Mention two uses.
2. What is Cisplatin? Mention two uses.
3. Name two conditions where multi drug therapy is indicated with antimicrobials.
4. Mention two examples each for bacteriostatic and bactericidal drugs.
5. What is the mechanism of action of Vinca alkaloids?
6. Which antithyroid drug inhibits hormone release from thyroid? Mention two uses.
7. Mention two insulin analogues.
8. Mention two Antioestrogens. Mention two indications.
9. Mention two conditions requiring Hormone replacement therapy.
What hormones are given?
10. Name the Mast cell stabilizers. What is their role in Bronchial asthma?

SECOND M.B.B.S. DEGREE EXAMINATION**Paper II – PHARMACOLOGY – II***Q. P. Code : 524066***Time : 180 Minutes****Maximum: 40 Marks**Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:**Pages Time Marks
(Max.) (Max.) (Max.)**

- | | | | |
|---|----|----|----|
| 1. a. Classify the drugs used for the treatment of fungal infections. | | | |
| b. Explain the mechanism of action, interactions, adverse effects and uses of Ketoconazole. | 16 | 30 | 10 |
| 2. Discuss the pharmacotherapy of Helicobacter pylori infection. | 8 | 20 | 5 |

II. Write notes on:

- | | | | |
|--|---|---|-----|
| 1. Meropenem. | 3 | 8 | 1.5 |
| 2. Adverse effects and uses of Iodides. | 3 | 8 | 1.5 |
| 3. Erythrocytic schizontocidal agents. | 3 | 8 | 1.5 |
| 4. Enumerate the serious complications of oral contraceptives. | 3 | 8 | 1.5 |
| 5. Indications for oral hypoglycemic agents. | 3 | 8 | 1.5 |
| 6. Management of functional constipation. | 3 | 8 | 1.5 |
| 7. Gentamicin – PMMA (Polymethyl methacrylate) chain. | 3 | 8 | 1.5 |
| 8. Management of multi drug resistant Tuberculosis (MDR-TB). | 3 | 8 | 1.5 |
| 9. Clofazimine in Leprosy. | 3 | 8 | 1.5 |
| 10. Fusion inhibitors in HIV infection. | 3 | 8 | 1.5 |

III. Short Answers on:

- | | | | |
|---|---|---|---|
| 1. Mechanism of action of Cephalosporins. | 2 | 5 | 1 |
| 2. Post antibiotic effect. | 2 | 5 | 1 |
| 3. Cinacalcet. | 2 | 5 | 1 |
| 4. Name two highly selective corticosteroids and give their 2 uses. | 2 | 5 | 1 |
| 5. Precautions for use of tetracyclines. | 2 | 5 | 1 |
| 6. Special pharmacokinetic properties of Azithromycin. | 2 | 5 | 1 |
| 7. Mechanism of action of Paclitaxel. | 2 | 5 | 1 |
| 8. What is Mycophenolate Mofetil and explain its mechanism of action. | 2 | 5 | 1 |
| 9. Name four antiseborrheics. | 2 | 5 | 1 |
| 10. Ondansetron as an antiemetic. | 2 | 5 | 1 |

SECOND M.B.B.S. DEGREE EXAMINATION

Paper II – PHARMACOLOGY – II

Q. P. Code : 524066

Time: Three Hours

Maximum: 100 Marks

Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:

(2 x 15 = 30)

1. a. Classify Anti Thyroid drugs.
b. Adverse effects and uses of propylthiouracil.
c. Treatment of thyroid storm.
2. a. Classify fluroquinolones.
b. Explain the mechanism of action and uses of second generation fluroquinolones.

II. Write notes on :

(10 x 5 = 50)

1. Centrally acting muscle relaxants.
2. Complication of spinal anaesthesia.
3. Biological Response modifiers.
4. Therapeutic uses of Vitamin A.
5. Newer Macrolides.
6. Post Exposure prophylaxis of Rabies.
7. Dimercaprol.
8. Streptokinase.
9. Drugs for psoriasis.
10. Treatment of Bellodona poisoning.

III. Short Answers on:

(10 x 2 = 20)

1. Semi synthetic Penicillin.
2. Imipenem.
3. Name four Topical Anti fungals.
4. Injectable contraceptives.
5. Adverse effects of Aminoglycoside Antibiotics.
6. Oxytocin Antagonist.
7. Uses of Methotrexate.
8. Treatment of lepra reaction.
9. Enfuvirtide.
10. Intra vaginal preparations for Trchomonas Vaginalis.

[LD 545]

AUGUST 2013

Sub. Code : 4066

SECOND M.B.B.S. DEGREE EXAMINATION

Paper II – PHARMACOLOGY – II

Q. P. Code : 524066

Time: Three Hours

Maximum: 40 Marks

Answer ALL questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:

(2 x 7.5 = 15)

1. a. Enumerate and discuss the pharmacology of newer insulin analogues.
b. Add a note on insulin resistance.
2. Discuss the mechanism of action, Spectrum of activity and uses of Metronidazole.

II. Write Notes on:

(10 x 1.5 = 15)

1. PUVA (Psoralen Ultra Violet A).
2. Explain the mechanism of action & uses of Calcineurin inhibitors.
3. Bleomycin.
4. Tegaserod.
5. Pharmacotherapy of Gastro Esophageal Reflex Disease.
6. Zoledronate.
7. Emergency Contraception.
8. Gatifloxacin.
9. Name 2 Superactive GnRH agonist & what are their uses.
10. Role of corticosteroids in Tuberculosis management.

III. Short Answers on:

(10 x 1 = 10)

1. Advantages of Artemisinin based Combination Therapy (ACT).
2. Albendazole in Neurocysticercosis.
3. Oseltamivir.
4. Management of Lepra reaction.
5. Sulfasalazine as an antidiarrhoeal agent.
6. Atosiban.
7. Drugs used for Thyrotoxic crisis.
8. Chemoprophylaxis.
9. Ototoxicity produced by Aminoglycosides.
10. Vancomycin.

SECOND YEAR MBBS DEGREE EXAMINATION**Paper II – PHARMACOLOGY – II***Q. P. Code: 524066***Time: Three Hours****Maximum: 40 Marks**Answer **ALL** questions.

Draw Suitable diagrams wherever necessary

I. Elaborate on:**(2 x 7.5 = 15)**

1. a. Classify the drugs used for Diabetes Mellitus.
b. Discuss the actions and the available preparations of insulin.
2. a. Classify the drugs used for the treatment of peptic ulcer.
b. Discuss the mechanism of action and uses of proton pump inhibitors.

II. Write Notes on:**(10 x 1.5 = 15)**

1. Plasma expanders
2. Drugs for Gastroesophageal reflux disease
3. Rifampin
4. Classification of anti cancer drugs.
5. Metformin
6. Therapeutic uses and adverse effects of Gonadotropins.
7. Artemisinin based combination therapy.
8. Albendazole.
9. Sitagliptin
10. Fourth generation cephalosporins

III. Short Answers on:**(10 x 1 = 10)**

1. Mention four anticoagulants used in vitro.
2. Mention four therapeutic uses of vitamin D.
3. Give four examples of Fluroquinolones.
4. Mention four antiretroviral drugs
5. Mention four antimalarial drugs
6. Mention four contraindication for heparin.
7. Mention four HMG-COA reductase inhibitors.
8. Mention four antiamoebic drugs.
9. Mention four first line Anti tubercular agents.
10. Mention four topical antifungal drugs

SECOND YEAR M.B.B.S DEGREE EXAMINATION

Paper II – PHARMACOLOGY - II

Q. P. Code: 524066

Time: Three Hours

Maximum: 40 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 7.5 = 15)

1. Classify immunosuppressants.
Describe the mechanism of action, adverse effects and therapeutic uses of calcineurin inhibitors.
2. Classify antimalarial drugs.
Describe in detail about Chloroquine resistance Malaria treatment.

II. Write Notes on:

(10 x 1.5 = 15)

1. Prophylaxis of HIV infection
2. Menopausal hormone replacement therapy
3. Human insulins
4. Sulfasalazine
5. 5HT3 antagonists
6. Antipseudomonal penicillins
7. 5 alpha reductase inhibitors
8. Radioactive iodine
9. Treatment of acne vulgaris
10. Short course chemotherapy in tuberculosis.

III. Short Answers on:

(10 x 1 = 10)

1. Mechanism of action of ciprofloxacin
2. Sulfone syndrome
3. Enumerate the differences between propyl thiouracil and carbimazole
4. Emergency contraception
5. Citrovorum factor rescue
6. Enumerate the contraindications of steroids
7. Super ORS
8. Mechanism of action of omeprazole
9. Write the mechanism of action and uses of Ivermectin
10. Newer formulations of Amphotericin B.
