

[LK 544]

FEBRUARY 2017

Sub.Code :5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify drugs used in peptic ulcer. Discuss the mechanism of action, uses and adverse effects of proton pump inhibitors.

II. Write notes on:

(4 x 5 = 20)

1. Mechanism of action, uses and adverse effects of methotrexate.
2. Enumerate insulin analogs. Write their indications and advantages.
3. Mechanism of action, uses and adverse effects of metronidazole.
4. Bisphosphonates.

III. Short answers on:

(5 x 2 = 10)

1. Mention four drugs used for acne.
2. Write two adverse effects and two contraindications of corticosteroids.
3. Mention one use of fluconazole and write the advantage of fluconazole over ketoconazole.
4. Write four general toxicities of cytotoxic drugs.
5. Write four adverse effects of oral contraceptive pills.

[LL 544]

AUGUST 2017

Sub.Code :5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify drugs used in the treatment of malaria. Outline mechanism of action and advantages of chloroquine. Write a note on prophylaxis of malaria.

II. Write notes on:

(4 x 5 = 20)

1. Treatment of scabies.
2. Triple regimen for H.Pylori infection.
3. Advantages and contraindications of OCP.
4. Mechanism of action and therapeutic uses and adverse effects of lovastatin.

III. Short answers on:

(5 x 2 = 10)

1. Two uses and two adverse effects of Vitamin D.
2. Mupirocin.
3. Write four immunosuppressant's and their uses.
4. Mention four newer oral anti-diabetic drugs.
5. Name two drugs used for filariasis. Mention the mechanism of action of these drugs.

[LM 544]

FEBRUARY 2018

Sub Code: 5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify oral hypoglycemic drugs. Discuss the mechanism of action and adverse effects of metformin. Why is it used as a first choice drug in type 2 diabetes mellitus patients?

II. Write notes on:

(6 x 4 = 24)

1. Propylthiouracil.
2. Discuss the mechanism of action, pharmacokinetics, uses and adverse effects of ranitidine.
3. Antimotility drugs.
4. Discuss the mechanism of action, and adverse effects of aminoglycosides.
5. Discuss the mechanism of action, uses and adverse effects of terbinafine.
6. Discuss in detail about pharmacokinetic drug interactions with suitable examples.

III. Short answers on:

(6 x 1 = 6)

1. Mention four therapeutic uses of octreotide.
2. Mention two anti-fibrinolytic drugs and two of their uses.
3. Mechanism of action and adverse effects of atorvastatin.
4. Anti-bacterial spectrum of azithromycin.
5. Mention four therapeutic uses of rifampicin.
6. Name two drugs which are selective estrogen receptor modulators. List one therapeutic use for each.

[LN 544]

AUGUST 2018

Sub.Code :5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify anti emetic drugs. How will you manage?
 - i) Motion sickness.
 - ii) Morning sickness.
 - iii) Drug induced postoperative nausea and vomiting (PONV).
 - iv) Anti cancer chemotherapy induced vomiting.

II. Write notes on:

(6 x 4 = 24)

1. Newer insulins.
2. Selective Estrogen Receptor Modulators (SERM).
3. Discuss the mechanism of action, indications of desferrioxamine.
4. Drugs used in gastro esophageal reflux disease.
5. Discuss the mechanism of action, pharmacokinetics, uses and adverse effects of dapsone.
6. Discuss the principle and guidelines in the treatment of HIV.

III. Short answers on:

(6 x 1 = 6)

1. Two advantages and two disadvantages of radioactive iodine.
2. Mechanism of action and uses of antioxidants.
3. Mention the mechanism of action and adverse effects of Flouroquinolones.
4. Antibacterial spectrum of cefotaxime.
5. Mechanism of action and adverse effects of cyclophosphamide.
6. Topical therapy used in psoriasis.

[LO 544]

FEBRUARY 2019

Sub Code: 5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on: **(4 + 6 = 10)**

1. Classify beta lactam antibiotics. Enumerate the mechanism of action, adverse effects and therapeutic uses of penicillins.

II. Write notes on: **(6 x 4 = 24)**

1. Mechanism of action and adverse effects of metformin.
2. Mechanism of action and therapeutic uses of metoclopramide.
3. Nucleoside reverse transcriptase inhibitors in treatment of HIV.
4. Discuss alkylating agents used as anti-cancer drugs.
5. Radioactive iodine.
6. Short course chemotherapy in the treatment of tuberculosis.

III. Short answers on: **(6 x 1 = 6)**

1. Name two calcineurin inhibitors and list two uses of the calcineurin inhibitors.
2. Name two new insulin delivery devices.
3. Two uses of penicillamine.
4. Name two drugs which are third generation cephalosporins.
5. Name two drugs used in the suppressive prophylaxis of malaria.
6. Name two adverse effects of aminoglycosides.

[LP 544]

AUGUST 2019

Sub.Code :5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(4 + 2 + 2 + 2 = 10)

1. Classify anti-tubercular drugs according to clinical utility. How will you treat?
 - a) Newly diagnosed pulmonary tuberculosis.
 - b) Previously treated pulmonary tuberculosis.
 - c) Multidrug resistant (MDR) TB.

II. Write notes on:

(6 x 4 = 24)

1. Discuss the status of oral hypoglycemic drugs in type 2 diabetes mellitus.
2. Discuss the pharmacological actions, pharmacokinetics, uses and adverse effects of oxytocin.
3. Cyclosporine.
4. Mention the mechanism of action, uses and adverse effects of ondansetron. Why is it advantageous over metoclopramide?
5. Highly active anti-retroviral therapy.
6. Mention the mechanism of action, uses and adverse effects of acyclovir.

III. Short answers on:

(6 x 1 = 6)

1. Mechanism of action and uses of finasteride.
2. Hepatitis B vaccine.
3. Justify the role of misoprostol in prevention and treatment of NSAID induced gastrointestinal injury.
4. Mention two advantages of combining antimicrobial agents with suitable examples.
5. Role of clofazimine in leprosy.
6. Mention two uses of dimercaprol. Why is urine alkalinized during dimercaprol therapy?

[LQ 544]

FEBRUARY 2020

Sub.Code :5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(2 + 3 + 1+ 2+ 2 = 10)

1. Classify antifungal drugs. Write in detail about mechanism of action, pharmacokinetics, clinical uses and adverse effects of fluconazole.

II. Write notes on:

(6 x 4 = 24)

1. Anti-pseudomonal penicillins.
2. Deflazacort.
3. Directly observed shortcourse treatment for TB.
4. Mechanism of action, adverse events and therapeutic uses of erythromycin.
5. Prostaglandin analogues used in treatment of peptic ulcer.
6. Treatment of psoriasis.

III. Short answers on:

(6 x 1 = 6)

1. Clinical uses of desferrioxamine.
2. Name any four antiplatelet drugs.
3. Name any two selective estrogen receptor modulators and mention any two of their uses.
4. Name any two bisphosphonates and mention any two of their uses.
5. Cyclosporine.
6. Name any four antiemetics.

[LR 544]

NOVEMBER 2020
(AUGUST 2020 SESSION)

Sub.Code :5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(2 + 8 = 10)

1. A 35 year old male patient, known hyperthyroid is brought to emergency with c/o palpitation, tremors and profuse sweating . O/E his pulse rate is 134/ min and BP is 160/100 mm/Hg.ECG shows sinus tachycardia and a diagnosis of thyroid storm is made.
 - a. How will you manage the above condition.
 - b. Discuss in detail the pharmacology of thioamides.
 - c. Write briefly on radioactive Iodine.

II. Write notes on:

(6 x 4 = 24)

1. Injectable contraceptives.
2. Proteasome inhibitors.
3. Third generation Cephalosporins.
4. Drugs acting on glucagon like peptide receptors.
5. Mycophenolatemofetil.
6. Chemoprophylaxis of Tuberculosis.

III. Short answers on:

(6 x 1 = 6)

1. Mention 2 uses and 2 advance effects of Methyl Prednisolone.
2. Write any 2 regimens for prophylaxis of surgical site infection.
3. What is Teicoplanin? Write its mechanism of action and uses.
4. Write any 2 drug interactions of Pyridoxine.
5. Write two mechanism of action and 2 uses of Paclitaxel.
6. Treatment of acute Amoebic dysentery.

[MBBS 0921]

**SEPTEMBER 2021
(FEBRUARY 2021 SESSION)**

Sub.Code :5062

**M.B.B.S. DEGREE EXAMINATION
SECOND YEAR
PAPER II – PHARMACOLOGY II**

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. 48 years old obese male with sedentary life style, presents with symptoms and blood sugar level suggestive of diabetes mellitus, fasting blood sugar 120 mgs%, Post prandial blood sugar 260 mgs%.
 - a. What type of diabetes do you suspect with above clinical picture?
 - b. Enlist the oral hypoglycemic agents used in treatment of diabetes mellitus.
 - c. Detail on the mechanism of action, uses and adverse effects of insulin sensitizers.

II. Write notes on:

(6 x 4 = 24)

1. Write in detail on mechanism of action, uses and adverse effects of aminoglycoside antibiotics.
2. Write in detail on retroviral protease inhibitors and combination therapy.
3. Therapeutic uses and adverse effects of metronidazole.
4. Mechanism of action, therapeutic uses, adverse effects of vinca alkaloids.
5. Uses and precautions of corticosteroids in ocular conditions.
6. Tigecyclines.

III. Short answers on:

(6 x 1 = 6)

1. Rationale of cotrimoxazole as fixed drug combination.
2. Linezolid.
3. Drugs used in treatment of scabies.
4. Name four anticancer antibiotics.
5. Name two 5 alpha reductase inhibitors, and their two uses.
6. Febuxostat.

[MBBS 0222]

FEBRUARY 2022

Sub.Code :5062

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2018-2019)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. A 29 years old female presents with symptoms suggestive of Multi Drug Resistant (MDR) pulmonary tuberculosis, sputum positive for acid fast bacilli and resistant to isoniazid.
 - a. Enumerate the various classes of antitubercular drugs (ATT) used in MDR TB and briefly discuss their mechanism of action and adverse effects.
 - b. Categories of treatment regimes used in treatment of Multi Drug Resistant (MDR) pulmonary tuberculosis.
 - c. What is the interaction of ATT drugs and oral contraceptives? Brief on the management of such interaction.

II. Write notes on:

(6 x 4 = 24)

1. Therapeutic uses of thyroid hormone.
2. Therapeutic uses and adverse effects of Amphotericin B.
3. Beta lactamase inhibitors and rationale of their combination with penicillin.
4. Primaquine.
5. Platinum compounds.
6. Anti Oxidant Vitamins.

III. Short answers on:

(6 x 1 = 6)

1. Name two hyperglycemic agents and their two uses.
2. Oral rehydration therapy and rationale of composition of oral rehydration solution.
3. Uses of interferons.
4. Maraviroc – mechanism of action and two adverse effects.
5. Drugs used in therapy of giardiasis.
6. Name three angiogenesis inhibitors.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0822]

AUGUST 2022

Sub. Code :5062

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify anti cancer drugs. Elaborate in detail about the mechanism of action, pharmacokinetics, adverse drug reactions and therapeutic uses of anti metabolites in cancer chemotherapy.

II. Write notes on:

(6 x 4 = 24)

1. Discuss in detail about adverse effects of corticosteroids.
2. Explain the pharmacological basis of artemisinin derivatives in the treatment of malaria.
3. Write short notes on Highly Active Antiretroviral Therapy.
4. Write short notes on treatment of scabies.
5. Discuss in detail about the insulin analogues.
6. Write in detail about the management of diarrhea.

III. Short answers on:

(6 x 1 = 6)

1. What is the treatment of Lepra reaction?
2. Name two probiotics and their therapeutic uses.
3. Mention the clinical uses of zinc.
4. Name four drugs used for the treatment of Inflammatory Bowel Disease.
5. Name four anti influenza drugs.
6. Write about the emergency contraceptives.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0223]

FEBRUARY 2023

Sub. Code :5062

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2018-2019)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. Classify oral hypoglycemic drugs. Elaborate in detail about the mechanism of action, pharmacokinetics, therapeutic uses and adverse effects of Metformin.

II. Write notes on:

(6 x 4 = 24)

1. Write short note on uterine relaxants.
2. Write in detail about the uses, adverse effects and drug interactions of oral contraceptives.
3. Discuss in detail about the uses and adverse effects of Chloroquine.
4. Write in detail about the treatment of urinary tract infection.
5. Write short note on H₂ receptor antagonists.
6. Explain the pharmacological basis of Immunosuppressants in organ transplantation.

III. Short answers on:

(6 x 1 = 6)

1. Write the clinical uses of British Anti-Lewisite.
2. Name four topical steroids.
3. Name two laxatives and write their mechanism of action.
4. What is post antibiotic effect?
5. Write about the adverse drug reactions of Tetracycline.
6. Name four drugs used for the treatment of thyroid storm.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0723]

JULY 2023

Sub. Code: 5062

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

1. Classify Aminoglycosides. Elaborate in detail about mechanism of action, pharmacokinetics, adverse drug reactions and therapeutic uses of Aminoglycosides.

II. Write notes on: **(6 x 4 = 24)**

1. Discuss in detail about anabolic steroids.
2. Write short notes on Tamoxifen.
3. Explain in detail about the uses and adverse drug reactions of Amphotericin B.
4. Write in detail about the uses and adverse drug reaction of Methotrexate.
5. Discuss in detail about the Anti Helicobacter pylori drugs and the various regimens used.
6. Write short notes on the treatment of acne vulgaris.

III. Short answers on: **(6 x 1 = 6)**

1. Name four drugs used for the treatment of constipation.
2. Mention four Gonadotropin releasing hormone agonists.
3. Write about the rationale of oral rehydration salt composition.
4. Write about the mechanism of action and two uses of vancomycin.
5. Brief the mechanism of action and uses of Ivermectin.
6. Mention two uses and two side effects of vitamin D.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0224]

FEBRUARY 2024

Sub. Code :5062

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. 40 years old male comes to hospital with complaints of increased thirst, frequent urination extreme hunger and unexplained weight loss. Blood analysis was done and fasting and post prandial blood sugar values were high. He was diagnosed to have Type II Diabetes mellitus.
 - a) Classify oral antidiabetic drugs.
 - b) Discuss the mechanism of action of Sulfonylureas.
 - c) Enumerate the Insulin preparations.
 - d) Discuss the management of diabetic Ketoacidosis.

II. Write notes on:

(6 x 4 = 24)

1. Describe the clinical applications of selective estrogen receptor modulators.
2. Enumerate uses of Ivermectin.
3. Drug therapy in multi bacillary leprosy.
4. Discuss the mechanism of action and adverse effects of Metoclopramide.
5. Describe the drugs used in prophylaxis of Malaria.
6. Discuss the uses and adverse effects of Cyclophosphamide.

III. Short answers on:

(6 x 1 = 6)

1. Mention the local adverse effects of Topical steroids.
2. Mention drugs used in therapy of Hepatitis B Infection.
3. Mention two uses and two adverse effects of Tacrolimus.
4. Uses of Metronidazole.
5. Mention drugs used in Gastro oesophageal reflux disease.
6. Mention two non opioid Antitussives.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0824]

AUGUST 2024

Sub. Code :5062

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on:

(1 x 10 = 10)

1. A 54-year-old male undergoes a Routine Master Health Check Up. His Blood Glucose values are fasting 140 mg/dl and Postprandial 192 mg/dl. His BMI is 28kg/m². He was advised Dietary and Life Style Modifications.
 - a) Classify the Drugs used in above Condition.
 - b) Discuss in detail the Pharmacology of Sulfonylureas.
 - c) Write briefly on the Management of Diabetic Ketoacidosis.

II. Write notes on:

(6 x 4 = 24)

1. mTOR Inhibitors.
2. Hormonal agents in Cancer Chemotherapy.
3. Mechanism of Action, adverse effects and uses of Carbapenems.
4. Protease inhibitors.
5. Adverse effects and Therapeutic uses of Glucocorticoids.
6. Tocolytics.

III. Short answers on:

(6 x 1 = 6)

1. Give Rationale for the use of Probiotics in Diarrhea.
2. Write the Mechanism of action and uses of Rifampicin
3. Enlist the Advantages of combination of Antacids.
4. Define Antiseptics. Enumerate any four of them.
5. Mention any four Anthelmintic Drugs and four uses of these Drugs.
6. Mention any two Regimens for Chloroquine Resistant Falciparum Malaria.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0325]

MARCH 2025

Sub. Code :5062

M.B.B.S. DEGREE EXAMINATIONS

(For the arrear candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

[3+2+1+1+3]

1. A 27 years old male present with symptoms suggestive of peptic ulcer disease and H. Pylori positive in gastric and duodenal mucosa.
 - a) Discuss in detail on gastric acid suppressants with respect to mechanism of action with relevant diagram, uses, adverse effects and drug interactions.
 - b) Treatment regimens for H. Pylori infection.

II. Write notes on: **(6 x 4 = 24)**

1. Discuss in detail on anti influenza drugs.
2. Artemisinin derivatives and Artemisinin based Combination Therapy (ACT).
3. Mechanism of action, uses and adverse effects of methotrexate.
4. Quinolones – mechanism of action, uses, adverse effects.
5. Write short notes on stool softeners.
6. Therapeutic uses and adverse effects of oxytocin.

III. Short answers on: **(6 x 1 = 6)**

1. Imatinib.
2. Mifepristone – mechanism of action and therapeutic uses.
3. Enumerate various classes of insulin analogues.
4. Daptomycin mechanism of actions and two uses.
5. Types of sunscreens with examples.
6. Define antiseptics and disinfectants with examples for each.

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MBBS 0725]

JULY 2025

Sub. Code: 5062

M.B.B.S. DEGREE EXAMINATION

(For the arrear candidates admitted upto the Academic Year 2018-2019)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 525062

Time: Three hours

Maximum : 40 Marks

Answer All Questions

I. Elaborate on: **(1 x 10 = 10)**

(4+4+2)

1. Classify drugs used in the treatment of diabetes mellitus. Enumerate the mechanism of action and adverse effects of Sulfonylureas. Briefly describe the Insulin analogues.

II. Write notes on: **(6 x 4 = 24)**

1. Mechanism of action and therapeutic uses of Cotrimoxazole.
2. Radioactive Iodine.
3. Mechanism of action, adverse events and therapeutic uses of Erythromycin.
4. Treatment of MDR TB.
5. Metoclopramide.
6. 5 Alpha reductase inhibitors.

III. Short answers on: **(6 x 1 = 6)**

1. Name two drugs used in treatment of influenza.
2. Briefly describe the mechanism of action of Vinca Alkaloids.
3. Name two drugs used as Purgatives.
4. Name two antithyroid drugs used to control thyrotoxicosis.
5. Name two drugs which are Selective Oestrogen Receptor Modulators. List one therapeutic use for each.
6. Name two drugs used in the treatment of Methicillin resistant Staphylococcus aureus.
