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

[MBBS 0322] MARCH 2022 Sub. Code :6062

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2019-2020 Batch onwards)

SECOND YEAR

PAPER II – PHARMACOLOGY II

Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20MCQs)**

Answer all the Questions

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

1. a) Classify drugs used in peptic ulcer

   b) Discuss the mechanism of action, uses and adverse effects of proton pump inhibitors.

   c) Add a note on Anti-H.pylori drug regimens.

2. a) Classify antimalarial drugs.

   b) Describe the mechanism of action, uses and adverse effects of chloroquine.

   c) Write briefly on Artemisinin based combination therapy(ACT).

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

1) Role of Bisphosphonates in Osteoporosis.
2) Therapeutic uses and adverse effects of Cisplatin.
3) Mechanism of action and uses of ciprofloxacin.
4) Discuss alkylating agents used as anticancer drugs.
5) Betalactamase inhibitors.
6) Drugs for psoriasis.
7) Mechanism of action and adverse effects of Amphotericin B.
8) Mechanism of action, uses and adverse effects of Cyclosporine.
9) Selective estrogen receptor modulators (SERMS).
10) Multidrug resistant (MDR) TB.

****

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

[MBBS 0822] **AUGUST 2022** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)
SECOND YEAR - SUPPLEMENTARY (CBME)
PAPER II – PHARMACOLOGY II

Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20MCQs)**

Answer all the Questions

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

1. A 25-year-old man has continuous low-grade fever for past 7 days. He also complaints of abdominal pain, loss of appetite, tiredness, and loose motions. On examination he was febrile, and he had coated tongue. Total leucocyte count was found to be elevated. Blood Widal test was positive and blood culture was positive for S.Typhi.
   a. What are the drugs given in this condition?
   b. Which is the drug empirically used in this condition? Explain its mechanism of action, adverse effects and other uses of this drug?
   c. Mention the uses and adverse effects of fluroquinolones.

2. A patient received first cycle of Cisplatin for head and neck cancer following which he developed severe nausea and vomiting.
   a. Name the drugs used in the management of nausea and vomiting in this patient and explain its mechanism of action.
   b. Classify antiemetics.
   c. Explain in detail mechanism of action, uses and adverse effects of Prokinetic agents.

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

1. Drugs used in erectile dysfunction.
2. Drugs for Acne.
3. Postcoital contraception.
4. Vancomycin.
5. Therapeutic uses and adverse effects of Aminoglycosides.
6. Mechanism of action and uses of Metronidazole.
7. Mention 4 chelating agents. Explain in detail chelating agent used in iron poisoning.
8. Mechanism of action, adverse effects and uses of Cotrimoxazole.
9. Mechanism of action, uses and adverse effects of Methotrexate.
10. Tocolytics

****

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

[MBBS 0223] **FEBRUARY 2023** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)

SECOND YEAR – (CBME)
PAPER II – PHARMACOLOGY II

Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20MCQS)**

Answer all the Questions

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

1. 15 years old girl admitted with c/o high fever, head ache and stomach pain. She revealed that she had visited marina beach last week end and ate from road side food stall.
   a) What could be the probable diagnosis?
   b) What are the drugs available to treat this condition?
   c) Describe the mechanism of action, uses and adverse effects of ciprofloxacin.
   d) What is the alternative for ciprofloxacin resistant cases?

2. 25 years old female came to the OPD with H/o three months of Amenorrhea, fever with rigors and burning sensation while passing urine for the past 3 days.
   a) What is the diagnosis and mention safe anti microbial agent in pregnancy?
   b) Describe the mechanism of action, uses and adverse effects of penicillin.
   c) Brief about suicide inhibitors.

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

1) Mechanism of action, uses and adverse effects of Vincristine.
2) Treatment of Lepra reactions.
3) Clinical uses and contraindications of Glucocorticoids.
4) Action and uses of Keratolytic agents.
5) Write the mechanism of action, uses and adverse effects of Proton pump inhibitors.
6) Mechanism of action uses and contraindication of Radioactive Iodine.
7) Mechanism of action uses and adverse effects of Cyclophosphamide.
8) Clinical uses and side effects of Insulin therapy.
9) Mechanism of action and uses of Acyclovir.
10) Treatment of Iron toxicity.

****

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

[MBBS 0723] **JULY 2023** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)

SECOND YEAR - (CBME)
PAPER II – PHARMACOLOGY II

Q.P. Code: 526062

Time: Three hours **Maximum: 100 Marks (80 Theory + 20MCQs)**

Answer all the Questions

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

1. A 25 years old male came with c/o cough with expectoration, evening rise of temperature, sweating and loss of appetite for the past 2 weeks.
   a) What is the diagnosis?
   b) Classify the drugs used in this condition.
   c) Describe the mechanism of action therapeutic uses and adverse effects of Rifampicin.

2. 30 years old male had attended a party last week, now she came with c/o loose stools with abdominal pain and mild fever.
   a) What is your probable diagnosis?
   b) Classify Antiamoebic drugs.
   c) Describe the mechanism of action, uses and adverse effects of Metronidazole.
   d) What will happen if the patient consumes alcohol during the course of Metronidazole therapy?

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

1. Hormone replacement therapy in menopause.
2. Mechanism of action, uses and adverse effects of Metoclopramide.
3. Mechanism of action and uses of Methotrexate.
4. Treatment of acne vulgaris.
5. Clinical uses of Uterine relaxants.
6. Write the mechanism of action, uses and adverse effects of Metformin.
7. Write the mechanism of action, uses and toxicity of Vancomycin.
8. Post exposure prophylaxis (PEP) of HIV infection.
9. Clinical uses of Ivermectin.
10. Therapeutic effects of Mycophenolate Mofetil.

****

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

[MBBS 0224] **FEBRUARY 2024** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)

SECOND PROFESSIONAL YEAR – (CBME)
PAPER II – PHARMACOLOGY
Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20MCQs)**

Answer all the Questions

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

1. A 30 year old mother came to OPD with complaints of 8 weeks of amenorrhea, on examination she was diagnosed with Anaemia. Since she had 10 months baby, she wanted to space out her next child and consulting you for taking contraceptive pills.
   a) Which type of hormonal contraceptive would you suggest?
   b) Explain the various methods, Mechanism, Adverse effect and Contraindication on Hormonal contraceptives.
   c) Write briefly about Male contraceptives.

2. a) Classify Antithyroid agents.
   b) Mention the pharmacological actions and therapeutic uses of Carbimazole.
   c) Add a note on Thyroid storm.

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

1. Write a note on Ormeloxifene.
2. Platinum Co-ordination complexes.
3. Write about post exposure propylaxis in HIV.
4. What precautions are given while prescribing Metronidazole?
5. Comment on role of following in Tuberculosis:
   a) Streptomycin
   b) Moxifloxacin.
6. Management of
   a) Diabetic Ketoacidosis (DKA)
   b) Hypoglycemic coma.
7. Drugs for erectile dysfunction – Explain their merits and demerits.
8. Define: XDR-TB and describe its management.
9. Uses and adverse effects of Testosterone.
10. Ovulation inducing agents.

****

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

[MBBS 0524] **MAY 2024** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)

SECOND PROFESSIONAL – SUPPLEMENTARY (CBME)
PAPER II – PHARMACOLOGY
Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20MCQs)**

Answer all the Questions

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

(3+8+4)

1. A 52 year old obese (BMI>28kg/m2) individual with type 2 diabetes was on oral hypoglycemic drugs. He was started on insulin therapy recently.
   a) Classify the type of insulin analogues.
   b) Discuss in detail about the pharmacological actions, uses and adverse reaction of Insulin.
   c) Write a note on pharmacotherapy of diabetic Ketoacidosis.

(1+4+10)

2. 60 year old female known diabetic with bronchial asthma treated with steroids, now she has presented with unhealed oral mucosal lesions on hard and soft palate, on examination whitish yellow slightly elevated spots seen.
   a) What is your probable diagnosis?
   b) Classify antifungal drugs.
   c) Write in detail about the mechanism of action, uses and adverse effects of AZOLES in therapy.

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

1. Tacrolimus as immunosuppressants.
2. Pyridoxine in pharmacotherapy.
3. Importance of Docusates in Treatment.
4. Superinfections.
5. Mechanism of action, various preparations and uses of Pencillin G.
6. Fondaparinux.
7. Write a note on prolactin inhibitors.
8. Management of extensive drug resistant tuberculosis.
9. Cell cycle M PHASE specific drugs.
10. D-pencillamine.

****

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

[MBBS 1224] **DECEMBER 2024** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)

SECOND PROFESSIONAL – MBBS (CBME)
PAPER II – PHARMACOLOGY
Q.P. Code: 526062

Time: Three hours **Maximum: 100 Marks (80 Theory + 20MCQs)**

Answer all the Questions

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

(1+3+9+2)

1. A 50-year-old obese male visits OPD with complaints of constant thirst, tiredness and frequently passing urine. His Fasting Blood Glucose is 120mg% and Postprandial Blood Glucose is 186mg%.
   a) What is your diagnosis?
   b) Classify the drugs used in the treatment of this condition.
   c) Describe the mechanism of action, adverse effects and uses of Metformin.
   d) Describe the management of an episode of Hypoglycaemia.

(4+9+2)

2. a) Classify Antifungal drugs.
   b) Describe the mechanism of action, adverse effects and uses of Amphotericin B.
   c) What are the advantages of Liposomal Amphotericin B over Conventional Amphotericin B?

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

1. Alpha glucosidase inhibitors.
2. Treatment of Neurocysticercosis.
3. Radioactive Iodine.
4. SERM.
5. Ulcer Protectives.
6. Aprepitant.
7. Drugs for treating Typhoid fever.
8. MDR / RR – TB Treatment Regimens.
9. Drugs for Acne vulgaris.
10. TNF alpha inhibitors.

****

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

[MBBS 0325] **MARCH 2025** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATIONS
(For the candidates admitted from the Academic Year 2019-2020)

SECOND PROFESSIONAL – SUPPLEMENTARY - (CBME)
PAPER II – PHARMACOLOGY
Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20MCQs)**

Answer all the Questions

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

(1+2+8+4)

1. A 30-year-old female presents with symptoms of Burning micturition, lower abdominal pain. On examination of urine – pus cells are plenty.
   a) What is your diagnosis?
   b) Enumerate the classes of antibiotics useful in treating the above patient.
   c) Write in detail on the mechanism of action, adverse effects and therapeutic uses of Aminoglycoside.
   d) What will be the choice of antibiotic if the above patient is in her first trimester of pregnancy? Explain the rationale of your choice.

(2+5+4+4)

2. a) Classify the drugs used for treatment of Peptic Ulcer.
   b) Describe in detail the pharmacology of H2 receptor blockers.
   c) Enumerate the drugs used in the treatment of GERD with rationale.
   d) H. Pylori treatment regimens.

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

1. Drugs for Scabies.
2. Taxanes.
3. Oseltamivir.
4. Echinocandins.
5. Treatment of Lepra reactions.
6. Types, composition, rationale and dosing of ORS.
7. Tocolytics.
8. Ulcer protective agents.
9. Anabolic steroids.
10. Newer Insulin delivery devices.

****

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

[MBBS 0725] **JULY 2025** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)

SECOND PROFESSIONAL - (CBME)
PAPER II – PHARMACOLOGY
Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20MCQs)**

Answer all the Questions

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

(5+3+2+5)

1. Classify Antithyroid drugs. Write the Mechanism of action and adverse effects of Carbimazole. Add a note on radioactive iodine.

(3+3+2+2+5)

2. Classification of Penicillin. Write the mechanism of action, spectrum of activities, uses and adverse effects of Benzathine penicillin. Add a note on Beta lactamase inhibitor.

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

1. Selective progesterone receptor modulators.
2. Enzymes in therapy.
3. Alpha glucosidase inhibitors.
4. Remdesivir.
5. Calcineurin inhibitors.
6. Drugs used in abortion.
7. Treatment regimen for XDR – TB and MDR – TB.
8. Targeted drugs in Cancer Chemotherapy.
9. Linezolid.
10. Pharmacotherapy for Scabies.

****

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

[MBBS 1025] **OCTOBER 2025** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020)

SECOND PROFESSIONAL – SUPPLEMENTARY – (CBME)
PAPER II – PHARMACOLOGY
Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20 MCQs)**

Answer all the Questions

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

(3+3+3+3+3)

1. 40-year-old female treated with steroid therapy for autoimmune diseases more than ten years.
   a) Classify Glucocorticoids.
   b) Elaborate in detail about the mechanism of action, pharmacological actions, uses, adverse effects of Glucocorticoids.

(3+8+4)

2. 25-year male gave history of intermittent fever, chronic diarrhoea. He was cachectic and chronically ill. His CD4 count <200cells/Microlitre.
   a) Classify antiretroviral drugs.
   b) Write in detail about the mechanism of action, adverse effects of nucleoside reverse transcriptase inhibitors.
   c) Write briefly on Prophylaxis of HIV infection.

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

1. Various VITAMIN D preparation and its uses.
2. Clinical pharmacology of Sirolimus.
3. Management of Neurocysticercosis.
4. Erythropoietin in therapy.
5. Suppressive prophylaxis of malaria.
6. Treatment of paucibacillary leprosy.
7. Clopidogrel.
8. Topoisomerase-2 inhibitor.
9. Mifepristone.
10. Stimulant purgatives.

****

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

[MBBS 0826] **AUGUST 2026** **Sub. Code :6062**

M.B.B.S. DEGREE EXAMINATION
(For the candidates admitted from the Academic Year 2019-2020 to 2023-2024)

SECOND PROFESSIONAL – CBME
PAPER II – PHARMACOLOGY
Q.P. Code: 526062

Time: Three hours **Maximum : 100 Marks (80 Theory + 20 MCQs)**

Answer all the Questions

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

(3+6+3+3)

1. A 45-year-old male reports to the hospital with loss of appetite, low grade fever, cough with expectoration, weakness and fatigue for last 1 month. He was diagnosed as a case of Pulmonary tuberculosis
   a) Classify anti-tubercular drugs.
   b) Mechanism of action, uses and side effects of Rifampin.
   c) Explain multi drug resistant (MDR) and Extreme Drug Resistant (XDR) tuberculosis.
   d) Role of corticosteroids in Tuberculosis.

(3+5+2+5)

2. a) Classify oral hypoglycaemic agents.
   b) Mechanism of action, uses and adverse effects of Metformin.
   c) Indications for Insulin in Type-2 diabetes.
   d) How will you manage Diabetic ketoacidosis.

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

1. Explain the mechanism of action, uses and adverse effects of Ondansetron.
2. Discuss the therapeutic applications of Thiamine (Vitamin B1).
3. Mechanism of action, uses of Azithromycin and its advantage over other Macrolides.
4. Discuss the mechanism of action, uses and adverse effects of Itraconazole. Mention its advantage over Ketoconazole.
5. Advantages and disadvantages of Antimicrobial combinations.
6. Describe the mechanism of action, uses and adverse effects of Amantadine.
7. Discuss the mechanism of action, uses and adverse effects of combined oral contraceptive pills.
8. Mechanism of action, uses and adverse effects of Mebendazole.
9. Toxicity ameliorating agents used in cancer chemotherapy.
10. Enumerate anabolic steroids. Discuss their use and abuse.

****