

QP CODE : 1029

Rajiv Gandhi University of Health Sciences, Karnataka

MBBS Phase – II (CBME) Degree Examination - 20-Aug-2025

Time: Three Hours**Max. Marks: 100****PHARMACOLOGY – PAPER II (RS-4, RS-5 & RS-6)****Q.P. CODE: 1029****(QP contains two pages)**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS**2 x 10 = 20 Marks**

1. Mention four Aminoglycoside antibiotics. Explain their common properties, mechanism of action and adverse effects.
2. A 69-year-old man presents to the hospital with increasing fatigue, shortness of breath and swelling of lower extremities. A diagnosis of Heart Failure was made.
 - a) Mention three groups of drugs with suitable examples used in Heart failure.
 - b) Write the mechanism of action and adverse effects of any one of the drugs used.

SHORT ESSAYS**8 x 5 = 40 Marks**

3. A 10-year-old boy with fever and sore throat was prescribed Azithromycin. Describe mechanism of action, antibacterial spectrum and uses of Azithromycin.
4. Discuss the therapeutic uses of Glucocorticoids.
5. Write the mechanism of action, adverse effects and uses of Alendronate.
6. Write the mechanism of action, adverse effects and uses of Vinca alkaloids.
7. A 55-year-old patient was diagnosed with new onset Type 2 Diabetes mellitus.
 - a) Mention two classes of Oral antidiabetic drugs with suitable examples that can be prescribed to this patient.
 - b) Describe mechanism of action and adverse effects of any one class of drug.
8. Write the mechanism of action, adverse effects and uses of Clomiphene citrate.
9. Discuss the drug therapy of Myocardial infarction.
10. Write the mechanism of action, uses and adverse effects of Loop Diuretics.

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

11. Mention three drugs used in the management of Hypertensive emergencies
12. Mention three Uses of Acetazolamide
13. Mention three advantages of Low molecular weight Heparin
14. Write two uses of Methotrexate. Explain the reason for using Folinic acid in Methotrexate toxicity
15. Explain the reasons for combining Ceftazidime with Tazobactam
16. Mention three drugs used in Leptra reaction with reasons
17. Mention three Protease inhibitors used in the treatment of HIV infection
18. Write three measures to reduce development of antimicrobial resistance
19. Write two uses of penicillin G. Why is it not preferred in Gram negative bacterial infection?
20. Mention three Live attenuated vaccines

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Multiple Choice Questions

10 x 1 = 10 Marks

- 21 i) The Long acting Insulin preparation producing a smooth peakless effect is
- Glargine
 - Lispro
 - Aspart
 - Glulisine
- 21 ii) Anastrozole inhibits which of the following enzyme to produce its therapeutic effect
- Transpeptidase
 - DNA Polymerase
 - Aromatase
 - Ribonucleotide reductase
- 21 iii) The drug used in Angina pectoris which dilates the coronary arteries is
- Nitroglycerine
 - Metoprolol
 - Ivabradine
 - Trimetazidine
- 21 iv) Which of the following is contraindicated in the treatment of pregnancy induced hypertension?
- Enalapril
 - Alpha methyl dopa
 - Labetalol
 - Hydralazine
- 21 v) Absorption of oral iron preparations can be facilitated by co-administration of
- Antacids
 - Tetracycline
 - Ascorbic acid
 - Calcium
- 22 i) Which of the following is an adverse effect of Atorvastatin
- Retinopathy
 - Gout
 - Thromboembolism
 - Myopathy
- 22 ii) The objectives of using antimicrobial combinations are
- To achieve synergism
 - To prevent emergence of resistance
 - To broaden the antimicrobial spectrum
 - All of the above
- 22 iii) A patient receiving an antimicrobial agent since a week for amoebiasis, had dizziness, flushing and vomiting after drinking alcohol. Which of the following drugs most likely caused this interaction with alcohol
- Imipenem
 - Levofloxacin
 - Griseofulvin
 - Metronidazole
- 22 iv) The anticancer drug that is not derived from plant source is
- Irinotecan
 - Vincristine
 - Doxorubicin
 - Paclitaxel
- 22 v) The potassium channel opener used for treatment of Alopecia is
- Nicorandil
 - Diazoxide
 - Cromakalim
 - Minoxidil
