

Rajiv Gandhi University of Health Sciences, Karnataka
MBBS Phase – II (CBME) Degree Examination - 09-May-2022

Time: Three Hours

Max. Marks: 100 Marks

PHARMACOLOGY – PAPER I (RS-4)**Q.P. CODE: 1028****(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. Discuss the various factors modifying drug action with suitable examples
2. A 64 year old woman is treated for Carcinoma of breast with metastases to bone and liver. Now, she complains of severe pain in her limbs and requests for pain medication. The attending doctor decided to prescribe Morphine.
 - a) Explain the rationale of using Morphine in this patient; Outline its mechanism of action
 - b) Enumerate the therapeutic uses and adverse effects of morphine
 - c) Discuss the drug treatment of Morphine dependence

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

3. Compare and contrast Neostigmine and Physostigmine
4. Therapeutic uses and adverse effects of Adrenaline
5. Mechanism of action, Therapeutic uses and adverse effects of Sodium valproate
6. Describe Transdermal drug delivery system
7. Mechanism of action, Uses and Adverse effects of Proton Pump Inhibitors
8. Clinical uses, adverse effects and contraindications of Atropine
9. A 32 year old man presents with pain, redness and swelling of great toe. A diagnosis of acute gout was made. Colchicine was prescribed for the patient.
 - a) Explain the mechanism of action of Colchicine in acute gout.
 - b) Mention the adverse effects of Colchicine.
10. A 21 year old lady presents with breathlessness and wheezing since a week. A diagnosis of bronchial asthma was made.
 - a) Write two groups of bronchodilators useful in Bronchial Asthma.
 - b) Explain the mechanism of action of each group.
 - c) Enumerate the adverse effects of each group.

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

11. Explain Zero order kinetics with an example
12. Write three indications for Lithium
13. Rationale of combining Lignocaine with Adrenaline
14. Rationale of using Aspirin in Myocardial Infarction
15. Name Three mucolytics
16. Rationale of using Ondansetron in cancer chemotherapy induced vomiting
17. Drug treatment of Paracetamol Poisoning
18. Rationale of using Mannitol in closed angle glaucoma (acute congestive glaucoma)
19. Mention three advantages of Selective Serotonin Reuptake Inhibitors over Tricyclic antidepressants
20. Define a Prodrug. Give two examples