

# Rajiv Gandhi University of Health Sciences, Karnataka

## III Year Pharm-D Degree Examination – 15-Nov-2022

**Time: Three Hours**

**Max. Marks: 70 Marks**

### **PHARMACOLOGY –II (RS & RS2)**

**Q.P. CODE: 2861**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

#### **LONG ESSAYS (answer any two)**

**2 x 10 = 20 Marks**

1. Classify cephalosporins. Describe the general mode of action, antibacterial spectrum, adverse drug reactions and therapeutic uses of first and third generation cephalosporins.
2. Discuss the gene expression in prokaryotes and eukaryotes.
3. Classify antifungals? Write the mode of action, antifungal spectrum, adverse drug reactions and therapeutic uses of any triazole antifungals.

#### **SHORT ESSAYS (answer any six)**

**6 x 5 = 30 Marks**

4. Write the mode of action, antibacterial spectrum and uses of amoxicillin.
5. Write the mode of action, pharmacological actions and therapeutics uses of cyclosporine A.
6. Discuss subacute toxicity studies.
7. Write the mechanism of action and pharmacological actions of thiazide diuretics.
8. Write the mode of action and therapeutic uses of any one antiplatelet agents.
9. Write the process of DNA replication in prokaryotes
10. Discuss the principle and applications of biosensors.
11. Write the steps involved in Sanger method of gene sequencing.

#### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

12. Mode of action of zidovudine.
13. Functions of mRNA and tRNA.
14. Loss of heterozygosity (LOH).
15. Any four antimalarial agents.
16. DOTS therapy for TB
17. Targeted drugs in cancer.
18. Cloning vectors.
19. Causative agent and drugs used in treatment of Leprosy.
20. Therapeutic uses of anticoagulants.
21. Mechanism of action of alkylating agents.

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