Rajiv Gandhi University of Health Sciences, Karnataka

III Year Pharm-D Degree Examination – NOV - 2017

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 with examples. Highlight on changes in antimicrobial spectrum, adverse reactions and therapeutic uses of each generation of cephalosporins.(4+6)
2. Discuss about the strategies, limitations and applications of gene therapy.(4+3+3)
3. Classify anti-retroviral agents with examples. Mention their important adverse effects. Write a note on modes of cell communication. (5+5)

SHORT ESSAYS (answer any six)   **6 x 5 = 30 Marks**

4. What are GP IIb/IIIa antagonists? Give examples. Write their mechanism of action and uses.

5. What are anti-diuretics? Give examples. Add a note on mechanism of action and uses of ADH.

6. Classify the anticancer agents with examples.

7. Write the pharmacology of 5-fluorourocil.

8. Describe signal transduction pathway of MAPK kinases.

9. Write a note on viral and non-viral approaches of gene therapy.

10. Enlist antiplatelet agents. Write the mechanism of action and therapeutic uses of aspirin as an antiplatelet agent.
11. Describe the term genome complexity.

SHORT ANSWERS   **10 x 2 = 20 Marks**

12. What is grey baby syndrome?

13. Explain pharmacology of frusemide.

14. What are triazoles? Write their merits and mechanism of action.

15. What are drugs used in treatment of round worm infestation?

16. Mention calcineurin inhibitors. Write their uses.

17. What are mTOR inhibitors? Give examples.

18. What is therapeutic index?

19. Outline the principle of biosensors.

20. Differentiate between DNA and RNA.

21. What are oncogenes? Give examples.

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