

www.FirstRanker.com

www.FirstRanker.com

Med Chem 2865 2012 2 S266.doc

## Rajiv Gandhi University of Health Sciences, Karnataka III Year Pharma-D Degree Examination - Sep 2012

Time: Three Hours Max. Marks: 70 Marks

## MEDICINAL CHEMSITRY

Q.P. CODE: 2865

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS 2 x 10 = 20 Marks

 Define antibiotics? Classify antibiotics and give one examples of drug with structure under each class. Write the of development of acid resistant and extended spectrum penicillins

- Define and classify anti-infective agents with two examples of drugs with structures under each class. Add note on structure activity relationships of quinolones
- 3 Classify antimalarial agents with examples. Write the mechanism of action, synthesis and uses of chloroquine

SHORT ESSAYS 6 x 5 = 30 Marks

- Write the chemistry and mechanism of action of ACE inhibitors
- Give four chemical structures of drugs belong to oral hypoylycemic agents and outline the synthesis of tolbutamide
- Classify diuretics with examples. Write the structure activity relationships of thiazide diuretics
- Classify anti-Arrhythmic agents with examples. Write the synthesis of any one anti-Arrhythmic agent
- 8. Write the mode of action, chemical structure and therapeutic use of cycloserine
- 9. Justify, sulfamethoxazole and trimethoprim combination is effective in antibacterial therapy
- Write the method of synthesis and applications of combinatorial synthesis
- 11. Explain how antimetabolities act as antineoplastic agents with suitable examples

SHORT ANSWERS 10 x 2 = 20 Marks

- 12. Write the chemical structure of sulfonamide used in ophthalmic infection
- 13. Write the synthesis of hexyl resorcinol
- Write the chemical structure and uses of testosterone
- 15. Mention the types of hyperlipoproteinemia
- 16. Why tetracyclines are not effective in presence of milk and metals
- 17. Write the chemical structure and uses of thyroxin
- Define scabicide with examples
- Write the chemical structure and uses of diethyl stilbosterol
- 20. Write the mechanism of action of amino glycoside antibiotics
- Define prodrug with examples

\*\*\*\*

