



**ANSWER ANY FOUR**

**4 X 25 = 100 Marks**

1.
  - a) Enlist the sources of drugs giving suitable examples.. How are the drugs discovered through serendipity
  - b) Discuss in detail about early cephalosporins and amido penicillins
2.
  - a) How are prostaglandins biosynthesized and disposed off from the body
  - b) What are  $\beta$  lactam antibiotics? Add an note on the development of semi synthetic penicillins
  - c) Enlist the hormones secreted from adrenal cortex. Add a note on neurohormones
3.
  - a) Give the mechanisms of action of positive inotropic agents. Explain the structures features of cardiac glycosides
  - b) what is passive – ion transport and explain its utility medicine
  - c) Add a note on plant products as antitumor drugs
4.
  - a) Discuss the structure elucidation of Reserpine
  - b) Give an account of diabetes mellitus and the use of insulin preparations
5.
  - a) What is recombinant DNA technology? Explain the term protein engineering and site directed mutagenesis
  - b) Discuss the effects of Anti – anxiety agents and alkylating agents during toxicological experiments
6. Write short notes on"
  - a) Carbapenams & Monolactams
  - b) Chemistry of emetine
  - c) Crude drugs in diabetes therapy
  - d) Salicin
  - e) Enzymes as drug targets

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