



- Notes :
1. All questions carry equal marks.
  2. Diagrams should be given wherever necessary.
  3. Illustrate your answers wherever necessary with the help of neat sketches.
  4. Q. 1 is compulsory & Solve **any four** from remaining.

1. Write in short about **any four**. **16**
  - a) Fertility agents.
  - b) Gluco corticoids.
  - c) Role of PTH in bone remodeling.
  - d) Anabolic steroids.
  - e) Guidelines for clinical research.
  - f) Management of clinical trials.
2. Classify immunosuppressants and explain mechanism of action, adverse effects and therapeutic effects of each class of immunosuppressants. **16**
3. What is cancer, give its types and the explain the mechanism of action. & therapeutic effects of each class of anti-cancer drugs. **16**
4. a) Explain the role of Insulin in controlling blood sugar level. **6**
  - b) Explain the mechanism of action adverse effects and therapeutic effects of each class of oral hypoglycemic agents. **12**
5. Define antibiotics, Explain in detail the mechanism of action, Resistance mechanism, anti-bacterial spectrum and therapeutic indications of Penicillin's. **16**
6. Write in brief about **any two**. **16**
  - a) Fluoroquinolones.
  - b) Chemotherapy of viral infections.
  - c) Chemotherapy of malaria.
7. a) Explain synthesis, storage and secretion of thyroid hormones. **8**
  - b) Explain drugs used for the treatment of hypothyroidism & hyperthyroidism. **8**

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