

QP Code : 09619

(2 Hours)

[Total Marks : 40

- N.B.** (1) Question No. 1 is **compulsory**.
(2) Attempt any **three out of four** questions.
(3) **Figures** to the **right** indicate **full** marks.

1. (a) Explain mechanism of action (any **two**) :— **4**
(i) Paclitaxel
(ii) Saquinavir
(iii) Erythromycine.
(b) State whether following statements are **True** or **False** and **Justify** (any **three**) :— **6**
(i) Chloroquine is used only for treatment of intestinal amoebiasis.
(ii) Isoniazide is bacteriostatic drug.
(iii) Propylthiouracil inhibits release of thyroid hormone.
(iv) Primaquine is used for radical cure of malaria.
2. Classify oral hypoglycemic drugs. Explain in detail mechanism of action, pharmacological actions, adverse effects and therapeutic uses of any one class. **10**
3. (a) Explain with suitable examples various mechanisms by which antimicrobials inhibit microbial protein synthesis. **6**
(b) Discuss with examples various mechanisms of development of resistance to antimicrobial drugs. **4**
4. (a) Discuss with example various mechanisms by which antifungal drugs interfere with formation of ergosterol. **6**
(b) Discuss pharmacotherapy of leprosy. **4**
5. Write short notes on any **two** of the following :— **10**
(a) Reverse transcriptase inhibitors used in treatment of HIV infection
(b) Treatment for osteoporosis
(c) Antimetabolites in treatment of cancer.

