

**Time : 2.30 Hours****Instructions:**

- 1) All questions are compulsory
- 2) Draw diagrams wherever necessary for Question no. 2, 3 and 4
- 3) Answers of Questions and Sub questions must be written strictly according to the serial order of question paper, otherwise the question shall not be valued
- 4) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.

*genta - TB***2. Long Answer Question****2 X 5 = 10**

- a. Describe important features of erythropoietin
- b. Describe the uses and adverse effects of gentamicin

Q3 Write Short Notes**4 X 3 = 12**

- a. Give justifications of co-administration of anti-microbial drugs. give suitable examples.
- b. Enumerate the drugs useful in osteoporosis. How are these drugs are likely to bring benefit?
- c. Compare phenytoin sodium and valproic acid as anti-epileptic drugs.
- d. Uses of Opioid.

Q4 Write in Brief: -**10 X 1 = 10**

- a. In case of phenytoin sodium why do we see a change in elimination kinetics from first order to zero order? Point out its clinical significance.
- b. Mention two uses of prostaglandins: prostaglandin- analogues,
- c. Name two drugs (Having different mechanisms) useful in treatment of acute gouty arthritis.
- d. Name two drugs useful in treatment of endometriosis.
- e. Mention two uses of ivermectin
- f. Mention two selective serotonin Reuptake inhibitors (SSRIs), used as anti-depressants.
- g. Why do we use, Lugol's iodine (aqueous iodine solution) before surgery of thyroid gland?
- h. Name of two drugs useful in mania - *lithium, sod. valproate*
- i. Name two azoles useful in fungal infection; one locally used on skin and another one used systemically
- j. Among anti-retroviral drugs, name one drug each, from Nucleoside Reverse Transcriptase inhibitor (NRTI) and Non- Nucleoside Reverse Transcriptase Inhibitor (NNRTI)