

P26/HSC138/EE/20160520

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
-

1. Solve any **four** sub-questions.
 - a) Compare local and systemic route of drug administration. 5
 - b) Define facilitated diffusion of drug transport. Explain with diagram. 5
 - c) What do you mean by drug side effects? Explain with example. 5
 - d) What is the source of nutrients of cornea and from where are they obtained? 5
 - e) Explain the factors affecting drug metabolism. 5

2. Solve any **four** sub-questions.
 - a) Explain the different mechanisms of drug action. 5
 - b) Write a short note on ocular gels. 5
 - c) Which is the most popular ocular route of drug administration? Why? 5
 - d) Ocular preservatives are useful and in some cases are harmful. Explain. 5
 - e) Explain Visual purple. 5

3. Solve any **four** sub-questions.
- a) Write a short note on albuminoids. 5
 - b) Explain Biochemical constituents of tear film. 5
 - c) Composition of proteins of lens changes with age. Explain. 5
 - d) Discuss the optical property of aqueous. 5
 - e) Write a note on Collagen of vitreous. 5
4. Solve any **four** sub-questions.
- a) Name any two Mydriatic drugs. Explain its mechanism of action and uses. 5
 - b) Name any two Miotic drugs. Explain its mechanism of action and uses. 5
 - c) Name any two Ocular NSAIDS. Explain its mechanism of action and uses. 5
 - d) Name any two Ocular anesthetics. Explain its mechanism of action and uses. 5
 - e) Name any two Ocular antivirals. Explain its mechanism of action and uses. 5

