

M.Sc.(FS) Semester - 3 (CBCS) Examination
Oct/Nov-2022 (NEW COURSE)
Pharmacology And Drugs Analysis (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1 (a)** Write a short note on DTAB. **04**
- Q.1 (b)** Answer any two question out of three. **10**
- (1) Discuss about systemic route of drug administration.
 - (2) Emphasize the following terms:-
 - (1) Adulterated drugs
 - (2) Misbranded drugs
 - (3) Spurious drugs
 - (3) What do you understand by Pharmacopeia? Give a brief account on Indian Pharmacopeia.
- Q.2 (a)** Explain dose response relationship. **04**
- Q.2 (b)** Answer any two question out of three. **10**
- (1) What do you understand by the term pharmacokinetic? Enlist the factor affecting drug absorption.
 - (2) Discuss bioavailability. Enlist the technique used for the measurement of bioavailability.
 - (3) What is biotransformation? Discuss about phase I Biotransformation
- Q.3 (a)** Emphasize the following terms:- **04**
- (1) Affinity
 - (2) Efficacy
 - (3) Potency
 - (4) Specificity
- Q.3 (b)** Answer any two question out of three. **10**
- (1) Define receptors. Discuss about the receptor occupation theory.
 - (2) What do you understand by term drug interaction? Discuss about drug-food interactions.
 - (3) Define adverse drug reaction. Discuss about drug abuse or addiction.
- Q.4 (a)** Write a short note on personalized medicine. **04**
- Q.4 (b)** Answer any two question out of three. **10**
- (1) Describe the benefits of pharmacogenomics.
 - (2) Enlist the challenges of pharmacogenomics
 - (3) Define Genetic polymorphism and discuss about SNPs.
- Q.5 (a)** Define principle of immunoassay. Write their application in forensics **04**
- Q.5 (b)** Answer any two question out of three. **10**
- (1) What is enzyme-immunoassay? Give a brief account on ELISA.
 - (2) Describe the difference between TLC and HPTLC
 - (3) Write down the principle of LC-MS and their applications.
