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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018 (Second Semester)

Branch **BIOTECHNOLOGY**

PHARMACEUTICAL BIOTECHNOLOGY

Time: Three Hours

Maximum: 75 Marks

Answer ALL questions ALL questions carry EQUAL marks

(2+5+8)

- 1 a Define drug.
 - b Comment on acute toxicity study,
 - c Elaborate a detailed note on pharmacokinetics.

OR

- d Define Pharmacodynamics,
- e Make a not on route of drug administration,
- f ITow do Preclinical and clinical trials are carried out?
- 2 a What is meant by dosage?
 - b Write the advantages and disadvantages of oral drug delivery,
 - c Exemplify transdermal drug delivery in detail.

OR *

- d What is meant by controlled drug delivery?
- e Give a short account on papreteral drug delivery and its advantages,
- f Explain in detqil on liposomal and targeted drug delivery.
- 3 a Write any 2 factors affecting drug absorption,
 - b Write a note on drug absorption.
 - c Elaborate on toxicity of drug metabolites in Liver and Kidney.

OR

- d Define Genotoxicity.
- e Comment on drug metabolism,
- f Discuss in detail on drug resistance.
- 4 a What is neurotransmitter?
 - b Give a short account on types of membrane in brain,
 - c Write a detailed note on the mechanism of biotransport.

OR

- d Write any 2 differences between BMEC and normal endothelial cells,
- e Write about the types, of neurotransmitter and their mode of action,
- f'Discuss in detail types of drug receptor interactions.
- 5 a Write any 2 advantages of herbal drugs,
 - b Write a note on drug formulation.
 - c Discuss in detail about herbs used for immunomodulation.

OR

- d What is phytopharmaceutical?
- e Comment on mode of action of psycho active drugs,
- f Elaborate in detail about immunomodulatory role oi Ocimum.