Sl.No: M19506 Course Code: MPH202T

# VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

# M.PHARM. DEGREE EXAMINATION – December 2018 Second Semester

**BRANCH: PHARMACEUTICS** 

### ADVANCED BIOPHARMACEUTICS AND PHARMACOKINETICS

Time: Three hours Maximum: 75 marks

(Draw neat labeled diagrams wherever necessary your answer should be specific to the questions asked)

#### SECTION -A

Answer any THREE questions: (3 x 15 = 45)
 Define absorption. What are the factors affecting absorption? Write a detailed note on dissolution process.
 Write a detail note on:

 a) Physiochemical nature of the drug. (7 ½)
 b) Formulation of factors affecting drug product performance. (7 ½)

 Write short notes on:

 a) One compartment model in IV Bolus and IV infusion. (7 ½)
 b) Vaccines (7 ½)

# **SECTION -B**

4. Design and evaluation of bioequivalence studies and Oligonucleotides.

## II. Answer any **THREE** questions:

 $(3 \times 10 = 30)$ 

- 5. What are the properties of the GIT and Tight junction complex?
- 6. Write a note on Biopharmaceutic factors affecting drug bio-availability.
- 7. Write short notes on:
  - a) Michaelis Menten equation. (5)
  - b) Drug interactions. (5)
- 8. Discuss about

a) Monoclonal antibodies b) Purpose of Bio-availability studies.

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