

6/1/24

Seat Number

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**DADU-53**

**MPH 103 T : Modern Pharmaceutics**  
**(181103)**

**Total Page : 1]**

**Time: 3 Hours**

**Max. Marks : 75**

**Attempt Any Five Questions Each Carry 15 Marks**

1. A. Explain in details Response surface methodology (RSM). 8  
B. What is Pharmacokinetics? Describe various pharmacokinetic parameters. 7
2. A. Explain in detail Analytical Method Validation. 8  
B. Describe different types of Process Validation. 7
3. A. Explain in brief Total Quality Management. 8  
B. Define Pharmacokinetics. Explain in brief pharmacokinetic parameters 7
4. Write a note on :  
a) Similarity factors 8  
b) Material Management 7
5. What are objectives and types of stability testing. Discuss in detail kinetics of stability, Stability testing. 15
6. A. Give classification of Disperse System. Explain important considerations of formulation of suspension. 8  
B. What are Emulsions? Give difference between SEDDS and SMEDDS 7
7. A. Define Compaction. Give different steps in compression process. 8  
B. Discuss Physics of tablet compression 7
8. A. What are Objectives of dissolution profile comparison? Explain in details f1 and f2 factor for dissolution comparison. 7  
B. Write a note on Higuchi and Peppas plot, 8