T.y. B.pharm Pharmaceutics V

VT-April-09- 100

4/5/09

Con. 2146–09. **BB–7644**

(2 Hours) **[Total Marks : 35**

Sem VI

N.B. : (1) Question No. **1** is **compulsory**.
(2) Attempt any **four** out of remaining **six** questions.
(3) Draw **neat** and **labelled diagrams** wherever **necessary**.

1. (a) State Arrhenius equation. Explain significance of energy of activation in application of Arrhenius equation. **4**
   (b) Discuss photolytic degradation. **3**

2. (a) Give salient features of reservoir type sustained release systems. **3**
   (b) Discuss one in-vitro release test apparatus in evaluation of sustained release systems which offers measurements under near sink conditions. **4**

3. Discuss technique of co-acervation-phase separation in detail and explain method of salt addition to induce co-acervation. **7**

4. Write notes on :– **7**
   (a) Physical stability of drugs and drug products
   (b) Ion exchange controlled drug release systems.

5. (a) Discuss briefly process of sugar coating. **5**
   (b) State problems encountered in compression coating. **2**

6. (a) Discuss factors which affect drug release from porous matrix systems. **3**
   (b) Discuss air suspension technique with reference to process variables. **4**

7. (a) Discuss 'orange peel' and 'bridging and filling' in coating. **4**
   (b) Write a note on 'Immersion tube coating pan.' **3**

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