

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Winter Examination-2018

**Subject Name: Pharmaceutical Dosage Form Design I**

**Subject Code: 4PS07DFD1**

**Branch: B.Pharm**

**Semester: 7**

**Date: 29/11/2018**

**Time: 10:30 To 1:30**

**Marks: 70**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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|            |                                |             |
|------------|--------------------------------|-------------|
| <b>Q-1</b> | <b>Define Following:</b>       | <b>(14)</b> |
|            | a) Amorphous compounds         | 01          |
|            | b) Carboxylation               | 01          |
|            | c) Antioxidants                | 01          |
|            | d) Log P                       | 01          |
|            | e) Ionization constant         | 01          |
|            | f) Pseudo first order reaction | 01          |
|            | g) Biopharmaceutics            | 01          |
|            | h) Absorption                  | 01          |
|            | i) Distribution                | 01          |
|            | j) Metabolism                  | 01          |
|            | k) Excretion                   | 01          |
|            | l) Bioavailability             | 01          |
|            | m) Bioequivalence              | 01          |
|            | n) Intrinsic Dissolution Rate  | 01          |

**Attempt any four questions from Q-2 to Q-8**

|            |  |             |
|------------|--|-------------|
| <b>Q-2</b> | <b>Attempt all questions</b>   | <b>(14)</b> |
|            | a) Explain the role of Polymorphism and solubility in Preformulation.              | <b>07</b>   |
|            | b) Write a note on Drug-Excipient compatibility studies.                           | <b>07</b>   |
| <b>Q-3</b> | <b>Attempt all questions</b>   | <b>(14)</b> |
|            | a) Explain Dissolution profile comparison using similarity & dissimilarity factor. | <b>07</b>   |
|            | b) Write a note on enteric polymers used for controlled release pharmaceutical     | <b>07</b>   |



