M. PHARM. SEM-I (CHOICE BASED CREDIT & GRADE SYSTEM): WINTER - 2018

SUBJECT: ADVANCED PHARMACEUTICS - I

Time: 10.00 A.M. TO 01.00 P.M. Monday Day: W-2018-4154 07/01/2019 Max. Marks: 60 Date: N.B. Answer any THREE questions from Section - I any THREE questions from 1) 2) Both the sections should be written in separate answer books. 3) Figures to the right indicate FULL marks. **SECTION - I Q.1** Enlist the various parameters to be considered during preformulation (10) study. Comment on the interrelationship of drug properties in preformulation. Explain the model based and model independent approaches to compare (10) **Q.2** dissolution profile. the various approaches employed for optimization Q.3 Enlist of (10) pharmaceutical formulations. Write short notes on: **Q.4** (10)Principle, Instrumentation and application of DSC. a) b) Q.1 ICH guideline for stability study of pharmaceuticals. SECTION - II Give an account of the different mathematical approaches to study the (10) Q.5 compressional behavior of solids. Define CMC. Elaborate on the factors affecting CMC. Q.6 (10)Explain the different mechanisms of biodegradation of polymers with (10) **Q.7** examples. Write notes on: (10)**Q.8**

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Thermodynamics of polymer solutions

a)

b)

Dendrimers