FINAL YEAR B.PHARM. SEMESTER-VII (2011 COURSE) :
WINTER - 2017
SUBJECT : DOSAGE FORM DESIGN – IV

Day : **Tuesday**
Date : **14/11/2017**

Time : **02.00 PM TO 05.00 PM**
Max. Marks : 80

W-2017-3845

N. B. :

1) **Q. No. 1** and **Q. No. 5** are **COMPULSORY**.
2) Attempt **ANY TWO** questions from the remaining in section – **I** and section – **II**.
3) Figures to the right indicate **FULL** marks.
4) Answers to both the sections should be written in the **SEPARATE** answer books.
5) Draw neat and labeled diagram **WHEREVER** necessary.

SECTION - I

Q. 1 Answer **ANY FOUR** of the following: **(10)**

a) Draw a neat diagram of Ocusert system.

b) What are self regulated DDS?

c) State differences between sustained release and controlled release formulations.

d) Write the mechanism of vapour pressure regulated DDS.

e) What are magnetically activated DDS?

Q. 2 a) Discuss mechanism of release of drug from membrane permeation DDS. **(08)**

b) Discuss how polymer diffusivity influences the release of drug from CDDS. **(07)**

Q. 3 a) Discuss Nitro Dur and Trans Nitro systems. **(08)**

b) Discuss effect of i) pH ii) Crystallinity of polymers in release profiles of drug in CDDS. **(07)**

Q. 4 Write notes on **ANY THREE** of the following: **(15)**

a) Alzet osmotic pump

b) Fillers in CDDS

c) Buech Void Model

d) Release kinetics from matrix formulation

P. T. O.

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1) **Q. No. 1** and **Q. No. 5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section
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SECTION - II

Q.5 Answer any **FIVE** **(10)**

a) Define concurrent validation
b) Give reasons for instability of drugs.
c) Define mix up and contamination
d) Enlist the objectives of quality management
e) How do QC & QA differ from each other?
f) Give the significance of documentation.
g) What is IPQC?

Q.6 **a)** Discuss various components of QMS. **(08)**
b) Give an account of sampling procedures **(07)**

Q.7 **a)** Give detailed account on process validation. **(08)**
b) Comment on mix ups and contamination in pharmaceutical manufacturing. **(07)**

Q.8 Write short notes **(any THREE)** **(15)**

a) SOP
b) Building facilities for manufacturing
c) Purchasing of materials
d) ICH stability guidelines

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