

Pramukh Swami Science & H.D. Patel Arts College, Kadi

Bachelor of Vocation Pharmaceutical Chemistry Semester- V

Mid Examination, November- 2016,

(PC 514) Introduction to Drug Delivery System

Time: 2 hours

11/11/2016

Total Marks: 60

Que-1. Answer any 12 questions. Each question carries 1 mark [12]

- 1) What is ideal drug regimen?
- 2) Comment: CDDS is better than conventional dosage form.
- 3) Define permeation enhancer. Name any two.
- 4) _____ & _____ are used for high density system of GRDDS.
- 5) Define Reservoir system.
- 6) Enumerate OROS for solid drug delivery. (Any 3 with full name)
- 7) Write Mechanism of osmotic drug delivery system.
- 8) Define Therapeutic index.
- 9) Write example of vaginal & rectal mucoadhesive DDS.
- 10) _____ is rate limiting step in design of controlled drug delivery system. (Release/ Absorption)
- 11) Enlist of name of polymer which are PH dependant.
- 12) Write down components of transdermal dds.
- 13) Define: Mucoadhesive Drug delivery system

Que.2. Answer any five questions. Each question carries 4marks [20]

- 1) brief on diffusion controlled CDDS.
- 2) What is Pulsative drug delivery system. Write about Pulsin Cap & PORT
- 3) Write down Drug delivery system which release drug at zero order. & give its components.
- 4) Write advantage of GRDDS & write about floating dosage form.
- 5) Write a Theory that explain Mechanism of Muco adhesion.
- 6) What is colon Specific DDS & Note on enteric coated Tablet.

Que.3. Answer any four questions. Each question carries 7 marks [28]

- 1) Enlist factor affecting for designing of CDDS & Brief on Biopharmaceutical parameter.
- 2) Write down Buccal mucoadhesive Drug delivery system.
- 3) Note on Evaluations parameter of Transdermal Patch.
- 4) Write note on structure & function of skin for Drug penetration of TDDS.
- 5) Write note on following osmotic pump.
 - a) CPOP
 - b) Bilayer PPOP
 - c) L- OROS Soft cap