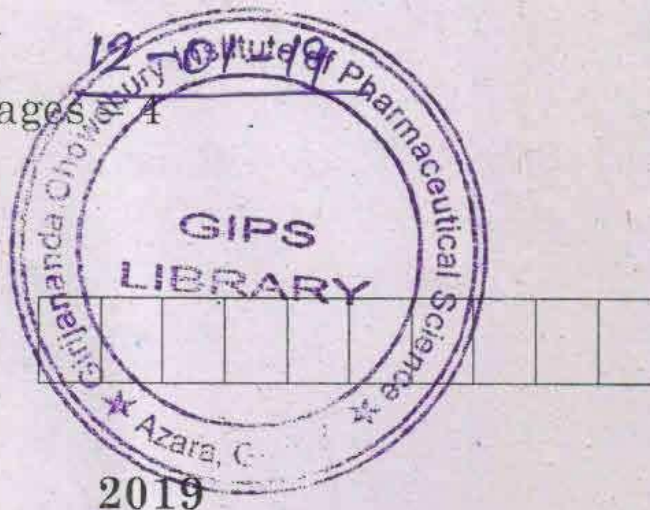


Total No. of printed pages 4

PY 132709 (E2)

Roll No. of candidate



2019

B.Pharm. 7th Semester End-Term Examination

ADVANCED PHARMACEUTICS

(Elective)

(Old Regulation)

Full Marks – 100

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Question.No.1 is compulsory. Answer any *six* from
the rest.

1. Short answer type questions. Answer the followings:
(10 × 1 = 10)

(i) Micro emulsion have globule size in the range of

- (a) 10-1000 nm (b) 10-100 nm
(c) 1-10 nm (d) 100 nm to 100 μ m

(ii) Weak acidic groups of smart polymers known as

- (a) Poly acids (b) Weak acids
(c) Poly base (d) None of this

[Turn over

- (iii) Poly(vinyl alcohol) is prepared by _____ of Poly vinyl acetate.
- (a) Oxidation (b) Hydrolysis
(c) Alcoholysis (d) Ketolysis
- (iv) Indomethacin was able to deliver a drug in a sustained manner as
- (a) W/O Emulsion (b) O/W/O Emulsion
(c) W/O/W Emulsion (d) None of this
- (v) Washing and lyophilization is carried out for formation of
- (a) Micro Emulsion (b) Nanoparticle
(c) Suspension (d) None of this
- (vi) A hinged blister is known as
- (a) Clamshell
(b) Thermoshell
(c) Plastic shell
(d) None of the above
- (vii) Thumb track test is used in
- (a) Nobel drug delivery
(b) Mucoadhesive drug delivery
(c) Transdermal drug delivery
(d) None of this
- (viii) Light sensitive drugs should be packed in
- (a) Alualu blister pack
(b) Strip pack
(c) Blister pack
(d) None of the above

- (ix) Vitamin A is not soluble in
- (a) Water
 - (b) Alcohol
 - (c) Acetone
 - (d) None of the above
- (x) Insulin is generally given through
- (a) Intravenous route
 - (b) Intramuscular route
 - (c) Transdermal route
 - (d) Subcutaneous route

2. Answer the following questions.

- (a) Explain smart polymer? How smart polymers are now a days used in control drug delivery with suitable example? (2 + 6)
- (b) Write notes on : (4 + 3)
- (i) Poly vinyl alcohol
 - (ii) Poly Methacrylate

3. Answer the following questions.

- (a) What do you mean by complexing polymer? (5)
- (b) Briefly explain formation and characterization of micro emulsion? (10)

4. Answer the following questions.

- (a) Write short notes on : (4 + 4)
- (i) Blister packing
 - (ii) Biodegradable polymer.
- (b) Briefly explain about preparation, characterization and application of multiple emulsion? (7)

5. Answer the following questions.
- (a) How microencapsulation technology is helpful for enzyme immobilization? (7)
 - (b) Explain the phenomenon of drug release from a reserve type of micro particle. (8)
6. Answer the following questions.
- (a) Write short notes on : (4 + 4)
 - (i) Storage condition of soft gelatin capsule
 - (ii) Implants
 - (b) Briefly explain about long acting contraceptive formulation. (7)
7. Answer the following questions.
- (a) Briefly explain about the preparation of non-bio degradable micro particle? (8)
 - (b) What are the different packaging components used in pharma industries? (7)
8. Answer the following questions:
- (a) Write short notes on (3 + 3)
 - (i) Lacrisert
 - (ii) Glass as packaging material
 - (b) Briefly explain about the elementary aspect of *in vitro-in vivo* correlation and its significance in dissolution study. (9)
9. Write brief notes on : (5 + 5 + 5)
- (a) Warehousing
 - (b) Closure system
 - (c) Osmotic drug delivery.