



Name :

Roll No. :

Invigilator's Signature :

CS / B.PHARM(NEW) / SEM-5 / PT-506 / 2011-12

2011

PHARMACEUTICS

(PHARMACEUTICAL TECHNOLOGY-II)

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following :

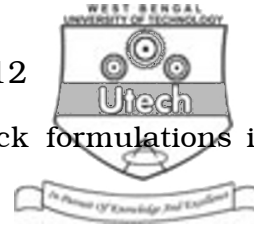
10 × 1 = 10

- i) Subcoating is done in tablet coating process to
- a) prevent moisture penetration into the tablet core
 - b) build up the tablet size
 - c) impart the desired colour
 - d) get desired lustre.
- ii) Which of the following coating problems can be solved by increasing or changing the plasticizer content of the coating solution ?
- a) Sticking
 - b) Roughness
 - c) Blistering
 - d) Bridging.

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- iii) Bromo mixtures are used in lipstick formulations in order to
- a) give the flexibility to the film
 - b) impart staining property to lipstick
 - c) act as preservative
 - d) act as antioxidant.
- iv) Millard reaction occurs in case of
- a) Anhydrous lactose b) Lactose
 - c) Avicel PH 101 d) Ac-di-sol.
- v) Dipac is used as
- a) Binder b) Diluent
 - c) Disintegrant d) Lubricant.
- vi) Which of the following is a directly compressible polymer used in tablet preparation ?
- a) Gelatin b) Sta-Rx-1500
 - c) Tragacanth d) Sorbitol.
- vii) Nitrocellulose is the main component for
- a) Vanishing cream b) Nail polish
 - c) Shampoo d) None of these.
- viii) Isoelectric pH range of Type B gelatin is
- a) 3.9 b) 9
 - c) 4.7 d) 9.9.

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- ix) Rotosort is an equipment used to
- a) separate the improper tablets
 - b) separate unfilled capsule
 - c) adjust the required compression for the tablets
 - d) fix the cap and body of the capsule.
- x) Sigma blade mixers are commonly used in
- a) Wet granulation
 - b) Dry granulation
 - c) Powder mixing
 - d) Crude fibre mixing.
- xi) Approximate capacity of capsule size '1' is
- a) 0.95 ml
 - b) 0.75 ml
 - c) 0.55 ml
 - d) 0.40 ml.
- xii) Trade name of acrylic polymer is
- a) Ac-Di-Sol
 - b) Cab-O-Sil
 - c) Celutab
 - d) Eudragit.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Write a note on Roche triabilator and Hardness tester.
3. Write a short note on sunscreen preparation.
4. Write short notes on lactose and spray dried lactose.
5. What do you mean by stability study ? What are the factor affecting the stability of pharmaceutical preparation ? 2 + 3
6. Write short notes on base adsorption and bloom of gelatin used in capsule shell preparation.

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GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) What are the purposes of enteric coating ? 3
b) Write in brief about the defects of film coating. 5
c) Write notes on air suspension coater. 5
d) Draw and describe an air-atomizer. 2
8. Why is tooth paste preferred over tooth powder ? Describe in brief the manufacturing of nail enamels. Write a short note on "Shampoo". 2 + 5 + 8
9. a) Differentiate between hard and soft gelatin capsules.
b) What are the advantages and disadvantages of capsule dosage form ?
c) Briefly describe the rotary dye process of soft gelatin capsule preparation.
10. Describe briefly the method of wet granulation technique with neat flow diagram. What is the importance of 'Slugging' ? Why is granulation so important in pharmaceutical industry ? 8 + 3 + 4
11. Write short notes on any *three* of the following : 3 × 5
i) Compression and force distribution during tablet compression.
ii) Processing problems of capsule dosage form.
iii) Dissolution test of tablets.
iv) Flow chart for the extraction of gelatin from animal sources.