

Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.Pharm (OLD)/SEM-4/PT-406 (2)/2010**

**2010**

**PHARMACEUTICAL TECHNOLOGY – II  
(PHARMACEUTICS)**

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 )**

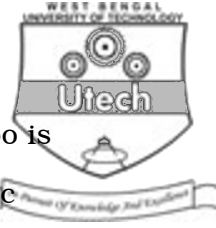
1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

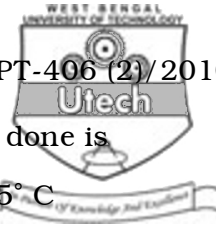
- i) Sigma blade mixers are commonly used in
  - a) Wet granulation
  - b) Dry Granulation
  - c) Power mixing
  - d) Crude fiber mixing.
- ii) Which one of the following ingredients improves the flow property of granules ?
  - a) Glidant
  - b) Emollient
  - c) Lubricant
  - d) Surfactant.
- iii) Enteric coating is achieved by using
  - a) Hydroxy propyl methyl cellulose
  - b) Carboxy methyl cellulose
  - c) Cellulose acetate phthalate
  - d) Providon.

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[ Turn over



- iv) The principle surfactant used in shampoo is
- a) Anionic
  - b) Cationic
  - c) Non-ionic
  - d) Ampholytic.
- v) Usual bloom strength of gelatin for capsule shell is
- a) 50-150 gram
  - b) 150-250 gram
  - c) 0-50 gram
  - d) 250-350 gram.
- vi) Iron content of gelatin shell should be
- a) > 15 ppm
  - b) 50 ppm
  - c) < 15 ppm
  - d) 25 ppm.
- vii) Standard weight of tablet generally ranges from
- a) 50-80 mg
  - b) 50-200 mg
  - c) 120-1000 mg
  - d) 120-700 mg.
- viii) Primogel and Explotab are
- a) Modified starch
  - b) Modified lactose
  - c) Modified MCC
  - d) Modified Dextrose.
- ix) Bromo mixtures are used in lipstick formulations in order to
- a) Give flexibility to the film
  - b) Impart staining property to lipstick
  - c) Act as preservative
  - d) Act as antioxidant.
- x) In tooth powder calcium carbonate which of the following grades is used as abrasive materials ?
- a) Heavy grade
  - b) Light grade
  - c) Both (a) and (b)
  - d) General grade.



- xi) Temperature at which dissolution test is done is
- a) 38° C
  - b) 37 ± 0.5° C
  - c) 98° C
  - d) 50° C.
- xii) The major active ingredient used in skin toners is
- a) Humectant
  - b) Emollient
  - c) Astringent
  - d) Vitamin.

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following. 3 × 5 = 15

2. Write a note on Fluidized Bed Coater.
3. What are the various sizes of empty gelatin capsules and their approximate capacities ?
4. What do you mean by Dissolution of tablets ? Describe briefly type I and type II Dissolution apparatus with suitable diagrams. 1 + 4
5. Write a short note on Accelerated Stability Testing.
6. What is gelatin ? Why is gelatin ideal for capsule shell ? Write the flowchart for the extraction of gelatin from animal sources.

**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following. 3 × 15 = 45

7. a) Write a note on weight variation test for tablet.
- b) Describe in detail about enteric coating procedure.
- c) Write a note on film forming material for film coating.

5 + 6 + 4

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8. a) Define capsule. Differentiate between Hard gelatin capsule and Soft gelatin capsule. ( 2 + 3 ) + 4 + 6
- b) What are the advantages and disadvantages of soft gelatin capsule over hard gelatin capsule ?
- c) Describe about various excipients used in the filling of hard gelatin capsules. ( 2 + 3 ) + 4 + 6
9. a) Diagrammatically write and describe the various functions for 'Punch' and 'Die' in compression machine for a tablet preparation.
- b) Write a note on physics of tablet making. 9 + 6
10. What are dentifrices ? What are the characteristics of dentifrices ? Why is tooth paste preferred over tooth powder ? Write down the composition and manufacturing procedure of tooth paste with suitable example. 1 + 2 + 2 + 7 + 3
11. Write short notes on any *two* of the following :  $7\frac{1}{2} + 7\frac{1}{2}$
- i) Baby product
- ii) Shaving cream
- iii) Shampoo.
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