



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.Pharm (NEW)/SEM-5/PT-506/2010-11**

**2010-11**

**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) Orange-Peel effect is related to
  - a) hard gelatin capsules
  - b) film coated tablets
  - c) uncoated tablets
  - d) none of these.
- ii) Chilsonator is used for
  - a) granulation
  - b) tablet coating
  - c) capsule filling
  - d) hardness testing.
- iii) Which of the following is used for enteric coating of tablets ?
  - a) polyethylene glycols
  - b) hydroxypropyl methyl cellulose
  - c) acrylate polymers
  - d) sodium carboxymethyl cellulose.

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[ Turn over





- xi) Capping of tablet is due to
- entrapment of water
  - entrapment of air
  - entrapment of fine particle
  - none of these.
- xii) In sugar coating, the colour additives are generally applied in which step ?
- seal coating
  - sub-coating
  - both (a) & (b)
  - syrup coating.

**GROUP – B**

**( Short Answer Type Questions )**

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

- Write a note on the effect of compression force on the properties of compressed tablets.
- What is gelatin ? Why is gelatin ideal for capsule shell ? Write the flow-chart for the extraction of gelatin from animal sources.
- Describe in brief, the different steps of lipstick manufacture.
- Write a short note on the manufacture of any *one* of the following :
  - nail enamel
  - vanishing cream
- What is angle of repose ? How does angle of repose determine the flow characteristics of powder ? How do you measure angle of repose ?  $1 + 2 + 2$



**GROUP – C**

**( Long Answer Type Questions )**

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

7. a) Define stability study. What are the factors affecting the stability of pharmaceutical preparation ? Write a note on accelerated stability testing for tablet preparation.
- b) Write a short note on USP dissolution test apparatus-I.
8. What is tablet coating & why is it necessary ? Briefly discuss the steps involved in sugar coating. What do you mean by enteric coating ? Discuss the coating technique using different standard coating pan.
9. Write down the different methods for tablet preparation. Describe about the dry granulation procedures. Write down the working principle and draw a neat sketch on "Chilosonator roller compactor".
10. Define tooth paste. Describe briefly about the ingredients used in tooth paste. Write down the difference between the normal and medicated tooth paste.
11. Define capsule. Differentiate between hard gelatin capsule & soft gelatin capsule. What are the advantages & disadvantages of capsule dosage form ? Define bloom strength & its importance. Why is plasticizer used ?