



Name :

Roll No. :

Invigilator's Signature :

**CS/B.Pharm(N)/ SEM-5/PT-506/2012-13
2012**

PHARMACEUTICS (PHARM. 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 :
 $10 \times 1 = 10$
- i) The 'wurster process' can be used to
 - a) coat tablets
 - b) determine the disintegration time
 - c) sterilize parenteral solutions
 - d) automatic filling of capsules.
 - ii) Cam track guides the movement of
 - a) die
 - b) punch
 - c) hopper
 - d) feed frame.
 - iii) Capping of tablet is due to
 - a) entrapment of water
 - b) entrapment of air
 - c) entrapment of fine particle
 - d) none of these.

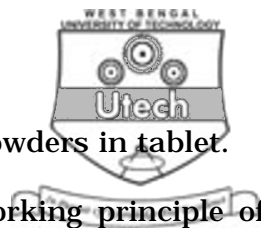
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- iv) Sta Rx 1500 is
- a) hydrolyzed starch
 - b) cellulose
 - c) directly compressible starch
 - d) glucose.
- v) The capacity of the breaker used in dissolution rate test USP-I is
- a) 100 ml
 - b) 250 ml
 - c) 500 ml
 - d) 1000 ml.
- vi) The speed of the Friabilator is
- a) 20 rpm
 - b) 25 rpm
 - c) 50 rpm
 - d) 100 rpm.
- vii) Type A gelatin exhibits an isoelectric point in the region of pH
- a) 4.7
 - b) 7.0
 - c) 9.0
 - d) 5.5.
- viii) A suitable example of a humectant used in cosmetic preparations is
- a) tannic acid
 - b) sodium lauryl sulphate
 - c) isopropanol
 - d) glycerol.
- ix) The maximum weight loss, which is considered acceptable after conducting friability test on a tablet sample is
- a) 0.1%
 - b) 0.5%
 - c) 1%
 - d) 2%.

CS/B.Pharm(N)/SEM-5/PT-506/2012-13



5. Justify why granules are preferred over powders in tablet.
6. Explain with the aid of a diagram, the working principle of fluidized Bed coater.

GROUP - C

(Long Answer Type Questions)

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

7. a) Define the term 'Tablets'. Enlist its merit and demerits as a dosage form. Give a flow chart to classify tablet dosage form in details.
b) Discuss the physics of tablet compression in brief.
 $2 + 4 + 4 + 5$
8. a) What do you mean by stability studies ? Describe the different methods of stability of tablet dosage form.
b) Define capsule. Briefly describe the Rotary die process of soft gelatin capsule.
 $3 + 4 + 1 + 7$
9. Define tooth paste. Describe briefly about the ingredients used in tooth paste. Write down the difference between the normal and medicated tooth paste.
 $1 + 12 + 2$
10. a) What are the ideal characteristic of lipstick ?
b) Write in details about composition of lipstick.
c) How to evaluate lipstick formulation ? $3 + 7 + 5$
11. Write short notes on any *two* of the following : $2 \times 7 \frac{1}{2}$
 - a) Coated tablet evaluation process
 - b) Enteric polymers
 - c) Accelerated stability studies.