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| 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%.

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- x) Bloom strength of gelation gel is considered suitable for capsulation is
 - a) 50 100g
- b) 150 280g
- c) 30 40g
- d) 300 500g.
- xi) The rate of dissolution may be described by which one of the following equations or laws
 - a) Fick's law
 - b) Noyes-whitney equation
 - c) Henderson-Hassellbach equation
 - d) Poiseuille's law.
- xii) Shellac is used for the purpose of
 - a) Sugar coating
- b) Film coating
- c) Dip coating
- d) Compression coating.
- xiii) The full form of ZPTO, a common anti dandruff agent is
 - a) Zinc pyridinium-thiol-N-oxide
 - b) Zinc Pyrimidinium-thiol-N-oxide
 - c) Zinc Pyridinium-tetra-N-oxide
 - d) none of these.

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following.

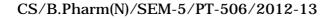
 $3 \times 5 = 15$

- 2. 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
- 3. Discuss the role of chilsonator is tablet manufacturing?
- 4. Write a short note on organoleptic additives.

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- 5. Justify why granules are preferred over powders in tablet
- 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) Accelenated stability studies.

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