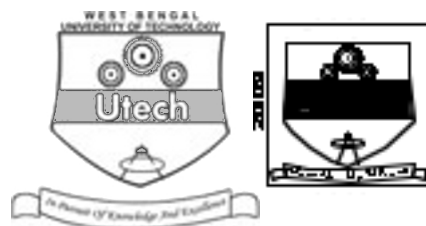


PHARMACEUTICAL TECHNOLOGY – II (PHARMACEUTICS) (SEMESTER - 4)

CS/B.PHARM/SEM-4/PT-406(2)/09



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the Candidate

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CS/B.PHARM/SEM-4/PT-406(2)/09

ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009

PHARMACEUTICAL TECHNOLOGY – II (PHARMACEUTICS) (SEMESTER - 4)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

- This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
- In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
 - For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
- Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
- Read the instructions given inside carefully before answering.
- You should not forget to write the corresponding question numbers while answering.
- Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
- Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
- You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
- Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

Question Number	Group – A						Group – B						Group – C						Total Marks	Examiner's Signature
Marks Obtained																				

.....
Head-Examiner / Co-Ordinator / Scrutineer

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ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009
PHARMACEUTICAL TECHNOLOGY – II (PHARMACEUTICS)
SEMESTER – 4



Time : 3 Hours]

[Full Marks : 70

GROUP – A**(Multiple Choice Type Questions)**

1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10
- i) A suitable example of a humectant used in cosmetic preparations is
- | | | |
|----------------|---------------------------|--------------------------|
| a) tannic acid | b) sodium lauryl sulphate | |
| c) isopropanol | d) glycerol. | <input type="checkbox"/> |
- ii) Which of the following is used for enteric coating of tablets ?
- | | | |
|-----------------------------------|--|--------------------------|
| a) polyethylene glycols | | |
| b) hydroxypropylmethylcellulose | | |
| c) acrylate polymers | | |
| d) sodium carboxymethylcellulose. | | <input type="checkbox"/> |
- iii) Type A gelatin exhibits an isoelectric point in the region of pH
- | | | |
|--------|---------|--------------------------|
| a) 4.7 | b) 7.0 | |
| c) 9.0 | d) 5.5. | <input type="checkbox"/> |
- iv) 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%. | <input type="checkbox"/> |
- v) Titanium dioxide is used as a
- | | | |
|------------|-------------------------------|--------------------------|
| a) dye | b) opacifier | |
| c) diluent | d) both as dye and opacifier. | <input type="checkbox"/> |

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vi) Sta Rx 1500 is

- | | |
|---------------------------------|--------------|
| a) hydrolyzed starch | b) cellulose |
| c) directly compressible starch | d) glucose. |



vii) Approximate capacity of capsule size '000' is

- | | |
|------------|-------------|
| a) 1.90 ml | b) 0.75 ml |
| c) 0.30 ml | d) 1.35 ml. |

viii) The trade name of Microcrystalline cellulose is

- | | |
|-------------|---------------|
| a) Avicel | b) Emdex |
| c) Primogel | d) Ac-Di-Sol. |

ix) Mottling is

- | |
|--|
| a) equal distribution of colours on a tablet |
| b) unequal distribution of colours on a tablet |
| c) equal distribution of binding solution |
| d) none of these. |

x) Vanishing cream is an emulsion of

- | | |
|---------------|----------------|
| a) w/o/w type | b) o/w type |
| c) w/o type | d) o/w/o type. |

xi) Capping of tablet is due to

- | | |
|--------------------------------|----------------------|
| a) entrapment of water | b) entrapment of air |
| c) entrapment of fine particle | d) none of these. |

xii) One of the components of effervescent tablet is

- | | |
|-----------------|-----------------|
| a) citric acid | b) oxalic acid |
| c) chromic acid | d) formic acid. |

**GROUP – B****(Short Answer Type Questions)**

Answer any *three* of the following questions.



3 × 5 = 15

2. a) What are the differences between the two types of gelatin available ?
 b) What do you mean by the Bloom or gel strength of gelatin used in capsule manufacture ? How is it determined ?
3. Describe in brief the different steps of lipstick manufacture.
4. Write a short note on accelerated stability testing.
5. Write a note on 'Friability' test of tablet.
6. Give reasons for coating of tablet dosage form.

2 + 3

GROUP – C**(Long Answer Type Questions)**

Answer any *three* of the following questions.

3 × 15 = 45

7. a) Describe the different ingredients used in the manufacture of nail enamels with suitable examples.
 b) Describe in brief the manufacturing of nail enamels.
8. Define tablets. What is the difference between glidants and lubricants ? Describe the wet granulation process with the help of a flow diagram.
9. a) What is tablet coating and why is it necessary ? Briefly discuss the steps involved in sugar coating.
 b) What do you mean by enteric coating ? What are the different film formers for enteric and non-enteric purposes ? Discuss the coating technique using standard coating pan.

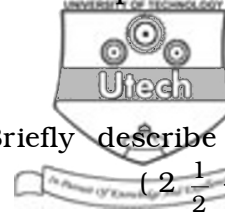
10 + 5

1 + 2 + 12

(3 + 4) + (1 + 3 + 4)



10. a) What is a tablet press ? Write in brief about the compression cycle of single punch tablet press.
- b) What are the evaluation tests of tablet ? Briefly describe the method of disintegration and dissolution test of tablet.
11. a) Define cosmetics.
- b) Classify cosmetics according to their use.
- c) Briefly discuss about sunscreen preparation.



2 + 6 + 7

END