Faculty of Pharmacy
End Semester Examination May 2025
PY3CO19 Industrial Pharmacy -I

| Programme | : | B. Pharm. | Branch/Specialisation | : | - |
| Duration | : | 3 hours | Maximum Marks | : | 75 |

Note: *All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary. Notations and symbols have their usual meaning.*

Section 1 (Answer all question(s))	Marks	CO	BL

Q1. Define angle of repose and give its formula.   2   1   1

Rubric	Marks
Definition	1
Formula	1

Q2. What is preformulation?   2   1   1

Rubric	Marks
Preformulation definition	2

Q3. Name any two diluents and disintegrants.   2   2   1

Rubric	Marks
Any two diluents -0.5 mark each	1
Any two disintegrants- 0.5 mark each	1

Q4. What are elixirs?   2   1   1

Rubric	Marks
Definition of Elixirs	2

Q5. What are soft gelatin capsules?   2   2   1

Rubric	Marks
Definition of Soft Gelatin Capsule	2

Q6. Define pellets.   2   2   1

Rubric	Marks
Definition of pellets.	2

Q7. Define isotonicity.   2   5   1

Rubric	Marks
Definition of isotonicity.	2

Q8. What is class 100 area? 　　　　　　　　　　　　　　　　　　　　　　　2　5　2

Rubric	Marks
Class 100 Area description	2

Q9. What are the quality control parameters of aerosols? 　　　　　　　　　　2　3　1

Rubric	Marks
List of Quality Control parameters of aerosol	2

Q10. What are the various materials used in packaging? 　　　　　　　　　　2　3　1

Rubric	Marks
List of Various materials used in packaging	2

Section 2 (Answer any 2 question(s))　　　　　　　　　　Marks CO BL

Q11. Describe in detail the preformulation studies. 　　　　　　　　　　　　10　1　2

Rubric	Marks
Description of preformulation studies in detail.	10

Q12. Discuss the processing problems in tablet manufacturing and give a detailed explanation of enteric coating. 　　　　　　　　　　　10　2　2

Rubric	Marks
Discuss the processing problems	5
Enteric Coating or types of Coating.	5

Q13. (i) What are the objectives and applications of preformulation? 　　　10　2　2
(ii) Explain the formulation and manufacturing of syrups.

Rubric	Marks
Objectives and Applications of Preformulation	5
Formulation and manufacturing of syrups	5

Section 3 (Answer any 2 question(s))　　　　　　　　　　Marks CO BL

Q14. Differentiate between hard gelatin and soft gelatin capsules. 　　　　5　2　3

Rubric	Marks
Any five Difference between Hard Gelatin and Soft Gelatin Capsules	5

Q15. Explain the production of gelatin A and gelatin B. 　　　　　　　　　5　2　2

Rubric	Marks
Production of gelatin A and B	5

Q16. Discuss the formulation composition of soft gelatin capsules. 　　　　5　2　2

Rubric	Marks
Formulation composition of soft gelatin capsules.	5

Section 4 (Answer any 2 question(s))　　　　　　　　　　Marks CO BL

Q17. What are parenteral products? Give merits & demerits of the same.   **5   5   2**

Rubric	Marks
Definition of Parenteral products.	2.5
Advantages and Disadvantages of parenteral products.	2.5

Q18. Discuss the excipients used in parenteral formulations.   **5   5   2**

Rubric	Marks
Excipients used in parenteral formulations.	5

Q19. Explain the quality control test for parenteral products.   **5   5   2**

Rubric	Marks
Quality Control test for parenteral products.	5

Section 5 (Answer all question(s))

Marks CO BL

Q20. Describe vanishing and cold creams and differentiate them by giving at least five differences.   **5   3   3**

Rubric	Marks
Vanishing and Cold cream	2.5
Atleast 5 Differences between Vanishing and Cold cream	2.5

Q21. Explain the quality control tests of aerosols.   **5   3   2**

Rubric	Marks
QC test of aerosols	5

Q22. Discuss any five different packaging materials used in the pharmaceutical industry.   **5   3   2**

Rubric	Marks
Description of any five different packaging material used in pharmaceutical Industry	5

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