R19

Code: BP502T

B.Pharm III Year I Semester (R19) Regular & Supplementary Examinations January 2023 INDUSTRIAL PHARMACY - I

Time: 3 hours Max. Marks: 75

PART - A

(Compulsory Question)

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|----|---|--|--|
| 1 | (a) (b) (c) (d) (e) (f) (g) (h) (i) | Answer the following: (10 X 02 = 20 Marks) Define intrinsic solubility with its significance. Explain BCS class-II drugs and give example. Give the specifications for tablets friability test. Give the cause and remedy of "Maillard reaction". Give the nature of the drugs which are to be incorporated in soft gelatine capsule shell. Mention the relative humidity and temperature in capsule filling area. White soft paraffin is not used to manufacture eye ointment. Why? Mention the pore size of HEPA filter and membrane filter. Explain the role of stearic acid in vanishing cream. Define propellant. Give the chemical name of propellant 114 with proper diagram. | 2M 2M 2M 2M 2M 2M 2M 2M 2M 2M 2M |
| | | PART – B | |
| | | (Answer any two questions: 02 X 10 = 20 Marks) | |
| 2 | (a) (b) | Define preformulation studies. Describe in short the physical parameters to be studied in preformulation phase. | 2M 8M |
| 3 | (a) (b) | Explain details the wet granulation technique for tablet manufacturing. Define "slug". | 9M 1M |
| 4 | (a) (b) | Define cosmetics. Classify with example. Write a short note on cold cream. | 5M 5M |
| | | PART – C | |
| | | (Answer any seven questions: 07 X 05 = 35 Marks) | |
| 5 | (a) (b) | Define partition co-efficient. Give its significance in drug design. | 1M 4M |
| 6 | (a) (b) | Define solubility. Write in short about the complexation as a technique to improve the solubility of poorly water soluble drugs. | 1M 4M |
| 7 | (a) (b) | Explain the steps of sugar coating. Give the use of HPMC. | 4M 1M |
| 8 | | Differentiate flocculated and deflocculated suspension. | 5M |
| 9 | (a) (b) | Define bloom strength. Give the various sizes of capsules with their capacities. | 2M 3M |
| 10 | (a) (b) | Define eye drops. Name any four preservatives used in ophthalmics. | 1M 4M |
| 11 | (a) (b) | Define isotonic solution. All the isotonic solutions are iso-osmotic but not the reverse. Explain it. | 2M 3M |
| 12 | (a) (b) | Define aerosol. Give a note on chlorofluorocarbon. | 1M 4M |
| 13 | | Give the classification of glass as per USP. | 5M |

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B.Pharm III Year I Semester (R19) Supplementary Examinations July/August 2022 INDUSTRIAL PHARMACY – I

Time: 3 hours

Max. Marks: 75

PART - A

(Compulsory Question)

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| | 1 | (0) | Answer the following: (10 X 02 = 20 Marks) | 2M | | | |
|--|---|-------|--|------|--|--|--|
| | | (a) . | Define polymorphism. Give two examples. What is racemisation? Give an example. | 2M | | | |
| | | (c) | What is meant by mottling in tablets? | 2M | | | |
| | | (d) | Give the purpose of enteric coating of tablets. Give two examples for enteric coating material | 2M | | | |
| | | (4) | used in tablets. | 2111 | | | |
| | 4 | (e) | Differentiate between hard gelatin capsule and soft gelatin capsule. | 2M | | | |
| | | (f) | Give the formulation requirements for pellets. | 2M | | | |
| | | (g) | Define parenteral formulations. | 2M | | | |
| | | (h) | Define sealing of ampoules. | 2M | | | |
| | | (i) | Write a note on vanishing cream. | 2M | | | |
| | | (j) | Commonly used ingredients in tooth paste and their purpose. | 2M | | | |
| | | | PART – B | | | | |
| (Answer any two questions: 02 X 10 = 20 Marks) | | | | | | | |
| | 2 | (a) | Explain preformulation studies and their significance. | 5M | | | |
| | | (b) | Discuss the quality control tests for tablets. | 5M | | | |
| | 3 | (a) | Write formulation and quality control of hard gelatin capsules. | 5M | | | |
| | | (b) | Write formulation and evaluation of eye drops. | 5M | | | |
| | 4 | (a) | With a neatly labelled diagram, explain the components of aerosol formulation. | 5M | | | |
| | | (b) | Write formulation and manufacturing considerations of syrups. | 5M | | | |
| | | | PART – C | | | | |
| | | | (Answer any seven questions: 07 X 05 = 35 Marks) | | | | |
| | 5 | (a) | Explain partition coefficient and its significance. | 2.5M | | | |
| | | (b) | Give the flow properties of pharmaceutical powders and its significance. | 2.5M | | | |
| | 6 | (a) | What are the different types of tablets? Explain. | 2.5M | | | |
| | | (b) | Did III many many many many many many many many | 2.5M | | | |
| | 7 | (a) | Discuss the formulation of a suspension. | 2.5M | | | |
| | | (b) | TALL TENTER | 2.5M | | | |
| | 8 | (a) | | 2.5M | | | |
| | | (b) | VALUE ALL COLLECTION OF THE CO | 2.5M | | | |
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B.Pharm III Year I Semester (R19) Regular Examinations February 2022 INDUSTRIAL PHARMACY - I

Time: 3 hours

Max. Marks: 75

PART - A

(Compulsory Question)

Answer the following: (10 X 02 = 20 Marks) 1

- (a) Define pH. What is pH scale?
 - (b) What is polymerization? Give example.
 - (c) What is meant by capping and chipping of tablets?
- (d) What are excipients in tablet dosage forms? Mention the various excipients used in tablets with two examples for each.
- List the composition of soft gelatine capsule shell. (e)
- What is an isotonic solution? Give its significance. (f)
- What are ophthalmic preparations? Mention various types. (g)
 - (h) Define and classify parenterals formulations.
 - What are the compositions of lipsticks? (i)
 - Write commonly used ingredients in shampoo and their purpose. (i)

PART - B

(Answer any two questions: 02 X 10 = 20 Marks)

- Explain preformulation studies in the development of solid oral dosage forms. 2 (a)
 - (b) Explain the formulation of tablets.
- Discuss the production and quality control of soft gelatine capsules. (a)
 - Explain the formulation and evaluation of parenteral formulations. (b)
- Discuss the materials used for the packaging of pharmaceutical products. (a)
 - (b) Explain coating of tablets.

PART - C

(Answer any seven questions: 07 X 05 = 35 Marks)

- 5 Give the classification biopharmaceutical of drugs and its significance. (a)
 - Write about hydrolysis and oxidation of drugs. (b)
- Discuss the methods of coating of tablets. 6
 - Discuss the formulation of an emulsion. (b)
- (a) Write about packing and evaluation of liquid orals. 7
 - Write a detailed note on evaluation of hard gelatine capsules. (b)
- What are the merits and demerits of parenterals formulations? Discuss briefly large volume 8 parenterals.
 - (b) Explain filling of capsules.

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