



PAPER ID-311015

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Subject Code: BP502T

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BPHARM
(SEM V) THEORY EXAMINATION 2023-24
INDUSTRIAL PHARMACY I- THEORY

TIME: 3 HRS**M.MARKS: 75**

Note: 1. Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A**1. Attempt all questions in brief.****10 x 2 = 20**

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| a. | Write down the significance of carrying out pre-formulation studies. |
| b. | Define the role of pKa values in predicting the solubility profile of a drug. |
| c. | Classify tablets. |
| d. | State the composition of the enteric coating. |
| e. | Differentiate between hard and soft gelatin capsules. |
| f. | How the sizes of capsules are expressed? |
| g. | Mention the limitations of parenteral products. |
| h. | Define lyophilization. |
| i. | State the composition parameters of sunscreens. |
| j. | Define propellants. |

SECTION B**2. Attempt any two parts of the following:****2 x 10 = 20**

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| a. | Describe the various parameters of the in-process and finished product quality control tests for coated tablets. |
| b. | State and explain the formulation approaches for ophthalmic preparations. |
| c. | Explain the roles of various factors influencing the choice of pharmaceutical containers. |

SECTION C**3. Attempt any five parts of the following:****7 x 5 = 35**

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|----|---|
| a. | Describe the chemical properties of the drug substances to be considered in the pre-formulation studies. |
| b. | Explain formulation considerations of syrups and emulsions. |
| c. | Describe the parameters of in-process and final product quality control tests for capsules. |
| d. | Describe the packaging techniques, storage conditions and stability testing parameters for soft gelatin capsules. |
| e. | Elaborate the importance of adjusting pH and isotonicity for parenteral products. |
| f. | Explain the formulation requirements and process of palletization for pharmaceutical pellets. |
| g. | Write a brief note the various evaluation parameters for aerosols. |