PAPER ID-311015

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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**

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**

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**

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.

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