PAPER ID 410621

Subject Code: BP813ET

Roll No: | | | | | | | | | | | | | |

BPHARM
(SEM VIII) THEORY EXAMINATION 2023-24
PHARMACEUTICAL PRODUCT DEVELOPMENT

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

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

SECTION A

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

a.	Define "product development".
b.	Write the ideal properties of tablet excipients.
c.	Write the packaging materials for syrups.
d.	Define glidants.
e.	Define suspending agents.
f.	Write a note on paper as packing material.
g.	Enlist some new drug delivery systems.
h.	Write the properties of an ideal aerosol.
i.	Write some excipients used in creams.
j.	Define directly compressible vehicles.

SECTION B

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

a.	Discuss the theory and application of Non-ionic surfactants.
b.	Enlist and describe excipients used in parenteral products.
c.	Write the role of QbD and its application in pharmaceutical product development.

SECTION C

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

a.	Discuss the properties of plastics as a packaging material.
b.	Enlist the capsule excipients. How the excipients help in stability?
c.	Write a note on emulsifying agents.
d.	Discuss the importance of glycols and sorbitol.
e.	Discuss the tablet granulation process.
f.	Write the quality tests foe tablet dosage form.
g.	Enlist the materials of tablet coating.

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