

BACHELOR OF PHARMACY (B. PHARM.) (CBCS-2019 COURSE)
B. Pharm. Sem-V : WINTER : 2021
SUBJECT: INDUSTRIAL PHARMACY-I

Day : Friday
Date : 14-01-2022

W-20676-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 75

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q.1** Answer the following: **[20]**
- i) Mention the objectives for granulation?
 - ii) Give difference between lubricants and glidants.
 - iii) What is purpose of syrup (smoothing) coating step in sugar coating? Which types of syrup are used and mention processing conditions.
 - iv) Explain flow properties of powder.
 - v) Give the reasons for enteric coating, also mention ideal properties for enteric coating polymers.
 - vi) While coating which parameters are necessary to adjust?
 - vii) Explain tablets meant to be used in oral cavity.
 - viii) Mention the suitability of methacrylic acid copolymers in enteric-coatings.
 - ix) Amorphous or crystalline drug which will give more stable dosage form and why?
 - x) Suggest with reason a suitable buffer for suspension containing bentonite as a structured vehicle.
- Q.2** Answer **ANY TWO** from the following **THREE**: **[20]**
- i) Explain the importance of physical properties to be considered during preformulation stage.
 - ii) Explain in brief about evaluation of liquid orals.
 - iii) Explain film coated tablets. Give its formulation aspects and explain polymers used in film coating.

SECTION – II

- Q.3** Answer **ANY SEVEN** from the following **NINE**: **[35]**
- i) Discuss about major and minor manufacturing and printing defects of capsule.
 - ii) Explain about production of SGCs.
 - iii) What are pellets? Mention ideal properties, advantages and disadvantages.
 - iv) Discuss quality control tests used in evaluation of parenteral preparation.
 - v) Explain various types of injection containers used in parenterals.
 - vi) Explain various formulation considerations for ophthalmics.
 - vii) Explain in brief about formulation and manufacturing of tooth paste.
 - viii) Explain quality control and stability studies carried out for aerosols.
 - ix) Explain Tamper-resistant packaging.

* * * *