BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: BPHARM **SEMESTER : VI**
BRANCH: PHARMACY **SESSION : SP/18**

SUBJECT: PS6401 INDUSTRIAL PHARMACY I

TIME: 3 HOURS **FULL MARKS: 60**

INSTRUCTIONS:
1. The question paper contains 7 questions each of 12 marks and total 84 marks.
2. Candidates may attempt any 5 questions maximum of 60 marks.
3. The missing data, if any, may be assumed suitably.
***4*. Before attempting the question paper, be sure that you have got the correct question paper.**
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q.1(a)	What is preformulation?	[2]
Q.1(b)	Discuss the methods of stability testing to study the degradation of a drug during preformulation.	[4]
Q.1(c)	Discuss the physical properties of a drug that need to be studied at preformulation level along with their influence on formulation.	[6]
Q.2(a)	What is the necessity of preparing granules in tablet manufacturing?	[2]
Q.2(b)	Discuss the formulation and preparation of chewable tablet by wet granulation method.	[4]
Q.2(c)	Discuss the steps of sugar coating along with the significance of each.	[6]
Q.3(a)	Enlist the attributes/ characteristics of a core tablet to be coated possess.	[2]
Q.3(b)	Enlist the possible defects of a coated tablet and methods to prevent them.	[4]
Q.3(c)	Discuss the ingredients used in film coating.	[6]
Q.4(a)	Discuss the advantages of capsule dosage form.	[2]
Q.4(b)	How are hard gelatin capsules prepared?	[4]
Q.4(c)	Enlist and discuss the parameters that help in standardizing gelatin.	[6]
Q.5(a)	What is microencapsulation?	[2]
Q.5(b)	What are the advantages of microencapsulation?	[4]
Q.5(c)	Describe the different methods of microencapsulation.	[6]
Q.6(a)	Enlist the ointment bases with two unique features of each.	[2]
Q.6(b)	Discuss in brief ‘percutaneous absorption’.	[4]
Q.6(c)	Giving the unique features of ophthalmic preparations discuss the preparation of ophthalmic ointment.	[6]
Q.7(a)	Discuss the manufacturing problems that are possible during tabletting along with methods to overcome it.	[6]
Q.7(b)	Along with the pharmacopoeial (Indian) limits discuss the quality control tests performed on tablets/capsules.	[6]

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