

**SEMESTER EXAMINATION-2021**  
**CLASS – B.PHARM SUBJECT-FORMULATIVE PHARMACY**  
**PAPER CODE: BP-502T**

**Time: 3 hour**

**Max. Marks: 75**

**Min. Pass: 40%**

**Note:** Question Paper is divided into two sections: **A and B**. Attempt both the sections as per given instructions.

**SECTION-A (SHORT ANSWER TYPE QUESTIONS)**

**Instructions:** Answer any five questions in about 150 words each. Each question carries six marks. (5 X 7 = 35 Marks)

Question-1: Explain various types of additives or formulation components used in parenteral preparations.

Question-2: Define aerosol. Give a brief account on propellants.

Question-3: Classify different types of glass used for packaging of pharmaceutical preparations.

Question-4: Discuss various formulation and coating defects of tablet dosage form and their characteristic measures.

Question-5: Discuss various principles of hard gelatin capsule shell.

Question-6: Write a brief note on size of capsule and how will you calculate capsule size for a particular fill material?

Question-7: Write a note on base adsorption and m/g factor in capsule formulation.

Question-8: Give definition and objectives of preformulation study.

Question-9: Write a note on different parts of aerosol packaging with actuators and valves components.

Question-10: Discuss industrial formulation of cold cream and vanishing cream.

**SECTION-B (LONG ANSWER TYPE QUESTIONS)**

**Instructions:** Answer any FOUR questions in detail. Each question carries 10 marks. (4 X 10 = 40 Marks)

Question-11: Outline the design, requirements and facilities for production area of sterile products. Write a note on air handling system to control the contamination in aseptic area.

Question-12: Explain the industrial production of gelatin and formulation of hard gelatin capsule shell.

Question-13: Discuss in detail about quality control tests and acceptance criteria for tablet, capsule and parenteral products as per I.P.

Question-14: Discuss formulation, packaging and evaluation of oral liquid preparations.

Question-15: Explain any five physicochemical characteristics of drug molecules in detail as preformulation study.

Question-16: What are the different coating methods for tablet dosage form explain sugar coating and film coating in detail including formulation of coating solution.

Question-17: Draw flow chart sheet for production of tablet dosage form by dry granulation,

wet granulation and direct compaction techniques.

Question-18: Discuss formulation packaging and sealing of parenteral including ophthalmic preparations in industries.

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