

Roll No. ....

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Total No. of Questions : 10]

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**B. Pharmacy (Sem. - 5<sup>th</sup>)**  
**PHARMACEUTICS - V**  
**(Pharmaceutical Technology - I)**  
**SUBJECT CODE : PHM-3.5.2**

**Paper ID : [D0123]**

[Note : Please fill subject code and paper ID on OMR]

**Time : 03 Hours**

**Maximum Marks : 80**

**Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Three** questions from Section - C.

**Section - A**

**Q1) Define**

**(15 x 2 = 30)**

- a) Dentirifices.
- b) Lipsticks.
- c) Manicure preparations.
- d) Solubilizers.

Give any two examples of

- e) Oral vehicles for acid soluble drugs.
- f) Nail polish colouring agents.
- g) Flavouring agents.
- h) Preservatives effective in emulsion preparations.
- i) Propellants.
- j) Extracts prepared by maceration.
- k) Plasma substitute.
- l) Give any two factors influencing penetration of drugs.
- m) What is the need of water soluble suppository basis. Give examples.
- n) Give any two ideal requirements of suppositories.
- o) What is the necessity of clear gels? Give examples.

(4 x 5 = 20)

- Q2) Classify hair preparations and highlight formulation aspect of hair colours.
- Q3) How extracts of crude drugs could be prepared by multiple maceration process?
- Q4) Explain mechanism of drug penetration.
- Q5) Enumerate sterility testing of ophthalmic preparations.
- Q6) Highlight evaluation methods of semisolid dosage forms.

Section - C

(3 x 10 = 30)

- Q7) Explain different types of semisolid bases with their selection criteria.
- Q8) Explain manufacturing and evaluation techniques of lipsticks. Enumerate different colour systems used in Lipsticks.
- Q9) Highlight packaging and evaluation methods of pharmaceutical aerosol.
- Q10) Write note on :
- (a) Eye cosmetics.
  - (b) Hot extraction.
  - (c) Plasma Substitute.

