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Total No. of Pages : 02

Total No. of Questions : 18

Pharm. D (Sem.-3)
PHARMACEUTICAL FORMULATIONS
Subject Code : 3.6
Paper ID : [A2569]

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTION TO CANDIDATES :

1. **SECTION-A** contain **SEVEN** questions. Attempt any **FIVE** questions. Each question will carry **TWO** marks each.
2. **SECTION-B** contain **EIGHT** questions (Short Essay Type). Attempt any **SIX** questions. Each question will carry **FIVE** marks.
3. **SECTION-C** contain **THREE** questions (Long Essay Type). Attempt any **TWO** questions. Each question will carry **FIFTEEN** marks.

SECTION-A

1. Give four examples of directly compressible diluents.
2. Mention the disintegration time requirement (IP) for film coated tablets and enteric coated tablets.
3. What is creaming and cracking of emulsions?
4. Mention the limit for particulate matter in SVPs.
5. What is angle of repose and what is its significance?
6. Enumerate the parts of a matrix type of transdermal system.
7. What is meant by Carr's Index?

SECTION-B

8. Enumerate different techniques of preparing granules. Suggest remedies for low harness of granules and high weight variation of tablets.
9. Enumerate the quality control tests conducted on soft gelatin capsules. Briefly outline the steps involved in checking weight variation of soft gelatin capsules and mention its pharmacopoeial limits.
10. Mention the ingredients of a suspension dosage form. Briefly describe the tests conducted for evaluating the stability of suspensions.

11. Comment on the sterilization of parenteral solutions packed in LDPE bottles.
12. Give an account of materials used for formulating drug implants.
13. Give four examples of polymers used for enteric coating. Highlight the need for including
 - (a) Titanium dioxide and
 - (b) Plasticizer in film coating solution.
14. Mention four Jelly forming agents. Enumerate the important characteristics of jellies as drug delivery systems.
15. Comment on occuserts and the polymers used for their formulation.

SECTION-C

16. Outline the general procedure for film coating of tablets. Describe the tests carried out on coated film tablets and mention their pharmacopoeial limits.
17. Enlist different materials that can be packed in soft gelatin capsules. Mention the advantages and limitations of soft gelatin capsules as a drug delivery system. Describe the filling of soft gelatin capsules.
18. Write short notes on :
 - (a) Water soluble ointment bases for ocular use.
 - (b) Buccal drug delivery.
 - (c) Advantages associated with drug delivery from suppositories.