

F/2023/8101

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**First Year Pharmacy
PHARMACEUTICS
(ER20-11T)**

Time : Three Hours

Maximum Marks : 80

- Note :** i) Attempt any five questions out of eight.
ii) Each question carry equal marks.

4. Attempt the following. 8 each
- Define tablets. Discuss the different types of tablets and manufacturing defects in tablets.
 - What do you understand by current Good Manufacturing Practices. (cGMP)? Why is this important?

5. Attempt the following. 8 each
- Explain briefly various methods of sterilization.
 - Describe the structure and working of ball mill and membrane filter.

1. Attempt the following. 4 each
- Explain the principle, construction, working and applications of Double cone blender.
 - Define immunity and its types.
 - What is microencapsulation? Discuss briefly the techniques used in micro encapsulation.
 - Explain different types of plastics used in pharmaceutical containers.

6. Attempt the following. 4 each
- Differentiate between hard gelatin capsules and soft gelatin capsules.
 - Define well closed, light resistant and tightly closed containers.
 - Write a note on aerosol packaging.
 - Explain multiple maceration.

2. Attempt the following. 4 each
- Discuss about the dental products.
 - Describe the different types of glass used for containers.
 - Why tablets are coated? Name the different classes of coatings used.
 - Explain in brief Novel Drug Delivery System (NDDS).

7. Attempt the following. 8 each
- Describe the various methods for quality control.
 - What is Mixing? Classify the Mixtures. Explain Triple roller mill.

3. Attempt the following. 8 each
- Explain the importance of pharmacy in different fields.
 - Explain the principle and construction of fluidized bed dryer and process of freeze drying.

8. Attempt the following. 8 each
- Describe preparation of cold cream and lotion with example.
 - What is a suppository? Mention the qualities of an ideal suppository base.



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P.T.O.

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