SUPPLEMENTARY
MASTER OF PHARMACY (M. PHARM.) (CBCS-2019 COURSE)
M.Pharm. Sem-II PHARMACEUTICAL QUALITY ASSURANCE :SUMMER- 2022
SUBJECT : PHARMACEUTICAL MANUFACTURING TECHNOLOGY

Day : Wednesday | Time : 10:00 AM-01:00 PM

Date : 21-09-2022 | **S-20800-2022** | Max. Marks : 75

N.B.:

1) **Q.No.1** and **Q.No.5** are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
2) Answer to both the section should be written in the **SEPARATE** answer books.
3) Figures to the right indicate **FULL** marks.

SECTION – I

Q.1 Explain cGMP requirements for pharmaceutical plants. **[07]**

Q.2 **a)** Discuss legal requirements and licenses for API and formulation industries. **[07]**

b) Explain lyophilization technology with example. **[08]**

Q.3 Discuss in detail pharmaceutical production planning. **[15]**

Q.4 Write short notes on **ANY TWO** of the following: **[15]**

a) Small Volume Parenterals

b) Cleaning in Place

c) Needle Free Injections

SECTION – II

Q.5 Describe types of containers and qualities of good container. **[08]**

Q.6 Describe the process of particle coating. Describe in detail problems encountered in tablet coating along with the remedies to each problem. **[15]**

Q.7 What is PAT? Discuss the key features of PAT and its advantages. **[15]**

Q.8 Write short notes on **ANY TWO** of the following: **[15]**

a) Extrusion spheronization process

b) Blister packs and bubble packs

c) Risk assessment and measures to be taken to minimize risk

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