PRESIDENCY UNIVERSITY
BENGALURU

Department of Research & Development

Mid - Term Examinations - AUGUST 2024

Odd Semester: Ph.D. Course Work   **Date**: 12/08/2024

Course Code: MGT 916   **Time**: 02:00pm – 03:30pm

Course Name: Operations Management in Pharma   **Max Marks**: 50

Department: School of Management   **Weightage**: 25%

Instructions:

(i) Read the all questions carefully and answer accordingly.

(ii) Do not write any matter on the question paper other than roll number.

PART A (THOUGHT PROVOKING)

Answer all the Questions. Each question carries 5 marks.   **(4Qx 5M= 20M)**

1. Define Operations management and discuss a few broad activities that take place in the Pharma Industry.   CO1 [Knowledge, Application]

2. Identify a few GMP Principles that are followed in the production of pharmaceutical products and services.   CO:2   [Analysis]

3. Explain aggregate planning followed in many of the Indian Pharmaceutical Companies.   [CO:3   Synthesis]

4. Formulate a flow chart that depicts the sequential steps in Continuous processing in a typical mid scaled pharma company producing OTC medications   CO:4[Synthesis]

PART B (PROBLEM SOLVING)

Answer all the Questions. Each question carries 10 marks.   **(3Qx 10M= 30M)**

5. Describe in detail the role of key regulatory agencies that govern the Pharma Industry in the global context.   [CO: 2 Evaluation]

6. Cold Chain process follows a set of rules and procedures that ensure the proper storage and distribution of vaccines to health services from the International, National to the local level. Explain the cold chain process followed for a product like Polio vaccine.   CO:3 [Evaluation]

7. **PROBLEM SITUATION** : Zandu was one of the first pharmaceutical companies to offer "guaranteed 100% vegetarian" products, including gelatine-free capsules. The 5000-year-old science of Ayurveda underpins all our products, which prevent and control disease. Lately, Zandu Pharmaceuticals has had production variances and non-conforming batches. The company may

8. use control charts and Six Sigma to improve quality. How Six Sigma and control charts can improve output. Please evaluate how these tools can be used to add value to all the stakeholders, if you are Zandu's QC Head.

<div align="right">CO:4 [Evaluate]</div>