Exam. Code : 304302
Subject Code : 6346

P.G. Diploma in Business Management 2nd Semester
(Batch 2021-22)
PRODUCTION PLANNING AND CONTROL
Paper : PGDBM-201

Time Allowed—3 Hours] [Maximum Marks—50

Note :— Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION—A

1. Describe how aggregate plans relate to a firm's long and short term plans. List the different types of reactive and aggressive alternatives and discuss the advantages and limitations of each.
2. Explain the logic of material requirements planning, how it can be used to plan distribution inventories and how to schedule the receipt of materials to meet delivery dates.

SECTION—B

3. Explain the policies for both the continuous review and periodic review inventory control systems. For these methods identify ways to maintain accurate inventory records.

4. Identify the five basic demand patterns that combine to produce a demand time series. Describe the different types of judgemental forecasting approaches and when to apply them.

SECTION—C

5. A manufacturer receives large batches of components daily and decides to adopt an acceptance sampling scheme. Two possible plans are considered, each of which requires a sample of 30 components to be tested :

   Plan A : Accept the batch if no non-conforming components are found, otherwise reject.

   Plan B : Accept the batch if not more than one non-conforming components is found.

   For each batch calculate the probability of accepting a batch containing :

   (a) 2% non-conforming

   (b) 8% non-conforming.

6. Describe by exclusive emphasis on Just in time how lean systems can facilitate the continuous improvement of operations.

SECTION—D

7. Explain characteristics of both mass and batch production system by quoting one example each from manufacturing and service industry for each type of system.

8. Describe how companies use different production planning methods to operations strategy as a source of competitive strength.