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Total Number of Pages : 02

MBA
15MNG205

2nd Semester Back Examination 2018-19
OPERATIONS MANAGEMENT

BRANCH : MBA

Max Marks : 100

Time : 3 Hours

Q.CODE : F660

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Only Short Answer Type Questions (Answer All-10) (2 x 10)

- What do you understand by Push/Pull production?
- What are the equipments required for Flexible Manufacturing Systems?
- Briefly explain Business Process Reengineering.
- What are the important preventive measures to avoid breakdown?
- What are the principles of Six-Sigma?
- Briefly explain Computer Integrated Manufacturing?
- What are the reasons for replacement?
- Briefly explain QFD?
- What are the steps of ERP System implementation?
- Where are the places Poka Yoke works well?

Part- II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- Briefly explain the steps in product design.
- Define Value. What are the types of Value? Explain them.
- Distinguish between design capacity and system capacity.
- What are factors affecting forecasting?
- Explain the use of break-even analysis for plant location decision with a suitable example.
- What are the components of ERP cost? Explain them.
- What are the factors affecting plant location?
- Explain the basic principles of JIT manufacturing system.
- What are the types of layout? Explain them with examples.
- Derive the EOQ formula for the Purchase Model without shortages.
- Design a single sampling plan with the following parameters. Producer's risk (α)= 0.05; consumer's risk (β) = 0.10; Acceptable quality level (AQL) = 0.04 and Lot tolerance percent defectives (LTPD) = 0.10.
- Explain the steps in obtaining ISO 9000 registration.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

Q3 Distinguish between aggregate planning and master production scheduling. **(16)**

Q4 A job consists of four work elements and all are performed by the same operator. An analyst conducted work sampling to determine the standard time for the job. The duration of the study is one day with two shifts. Each shift has 420 minutes of effective time. The details of observations are summarized in the following table. The total number of acceptable units produced during the study period is 225 units. Determine the standard time by assuming allowance of 12 percent. **(16)**

Work Element Number	Frequency of Performance	Performance Rating
1	50	90%
2	90	150%
3	75	100%
4	85	115%

Q5 If you could locate your new software development company anywhere in the world, which place would you choose, and why? **(16)**

Q6 Explain in detail what is the difference between Systematic layout planning and CRAFT. **(16)**