Roll No										

PRESIDENCY UNIVERSITY
BENGALURU

SCHOOL OF ENGINEERING
MID TERM EXAMINATION - APR 2023

Semester : Semester VI - 2020
Course Code : MEC3068
Course Name : Sem VI - MEC3068 - Production and Operations Management
Program : MEC

Date : 13-APR-2023
Time : 11:30AM - 1PM
Max Marks : 60
Weightage : 30%

Instructions:
(i) Read all questions carefully and answer accordingly.
(ii) Question paper consists of 3 parts.
(iii) Scientific and non-programmable calculator are permitted.
(iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS **(5 X 2 = 10M)**

1. What are the 5M's of production management?
(CO1) [Knowledge]

2. Mention different types of Production systems.
(CO1) [Knowledge]

3. Differentiate production and manufacturing.
(CO1) [Knowledge]

4. How will you differentiate product and service?
(CO2) [Knowledge]

5. What is facility location problem?
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS **(3 X 10 = 30M)**

6. Explain in detail about the scope for production management in a manufacturing environment.
(CO1) [Comprehension]

7. Explain job shop and mass production systems with suitable example from real life. Also brief about characteristics, advantages and disadvantages of each production type mentioned above.
(CO1) [Comprehension]

8. What are the various types of utility created in the production? Explain in detail.
(CO1) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION **(1 X 20 = 20M)**

9. i) Differentiate production planning and control.

ii) A company is planning to have a new manufacturing facility considering the locations of five major suppliers. The coordinates of the suppliers are S1=(5,1), S2=(7,3), S3=(2,8), S4=(4,6) and S5=(8,7). The cost per unit distance traveled is the same for each supplier, but the number of trips per day between the facility and each of its suppliers are 5,6,2,4 and 8.

(CO2) [Application]