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# DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – DECEMBER 2023

Semester: VI 552 MG64 PRODUCTION AND OPERATION MANAGEMENT

Time: 3:00 Hours

Max. Marks: 100

Answer any FIVE Questions (5 x 20 = 100 Marks)

1. a) Give the scope of production and operation management. (5 Marks)  
b) Explain the methods of manufacturing. (5 Marks)  
c) Describe the characteristics of production and operation functions. (5 Marks)  
d) Distinguish the production and operation function. (5 Marks)
2. a) What do you mean by group and combined lay out? (5 Marks)  
b) Brief the significance of need analysis in plant layout. (5 Marks)  
c) Mention the steps in plant location. (5 Marks)  
d) Explain the role of plant location in production function. (5 Marks)
3. a) What are the elements of material handling system. (5 Marks)  
b) Write short note on work study. (5 Marks)  
c) State the significance of method study. (5 Marks)  
d) Brief the importance of work measurement. (5 Marks)
4. a) Define quality. How is it ensured? (5 Marks)  
b) Discuss in detail the quality control techniques. (5 Marks)  
c) State the meaning of statistical quality control. (5 Marks)  
d) Explain the types of maintenance. (5 Marks)
5. a) State the meaning and definition of stores location. (5 Marks)  
b) What are the factors affecting the location of stores? (5 Marks)  
c) Enumerate the documents pertaining to purchase and stores department. (5 Marks)  
d) Explain the need of stock verification. (5 Marks)
6. a) Define plant location. (5 Marks)  
b) What are the features of an ideal plant layout? (5 Marks)  
c) List down and brief the types of plant layout. (5 Marks)

- d) Explain the essentials of plant lay out. **(5 Marks)**
7. a) Describe the scheduling process for high volume continuous production system. **(5 Marks)**
- b) What is scheduling? What are the different types of production systems? **(5 Marks)**
- c) What you mean by control maintenance? **(5 Marks)**
- d) How important is quality control in business? **(5 Marks)**