

**UNIVERSITY COLLEGE TATI (UC TATI)****FINAL EXAMINATION QUESTION BOOKLET**

COURSE CODE	:	BTE 3683
COURSE	:	INDUSTRIAL MANAGEMENT
SEMESTER/SESSION	:	2-2021/2022 2-2022/2023
DURATION	:	3 HOURS

Instructions:

1. This booklet contains **5** questions. Answer **ALL** questions.
2. All answers should be written in answer booklet.
3. Write legibly and draw sketches wherever required.
4. If in doubt, raise your hand and ask the invigilator

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

THIS BOOKLET CONTAINS 4 PRINTED PAGES INCLUDING COVER PAGE

QUESTION 1

- a) Define industrial management. (4 marks)
- b) List **FOUR (4)** benefits the organization gained from industry 4.0. (4 marks)

QUESTION 2

Activity	Predecessors	Time estimate (week)
A	None	4
B	A	6
C	A	3
D	B	6
E	D	14
F	C	5
G	E,F	2
H	G	2
I	G	3
J	H,I	4
K	J	2

- a) Demonstrate: (20 marks)
- i) Estimated project completion time.
 - ii) Total connected path in this project.
 - iii) Critical path activities.
 - iv) Does completion time will be affected if activity I takes 2 weeks longer?
- b) Give **TWO (2)** benefits of analysis using the critical path method. (4 marks)

QUESTION 3

The data shows the types of defects complained by customers:

Types of defect	Frequency Defects
Button defect	23
Pocket defect	16
Collar defect	10
Cuff defect	7
Sleeve defect	3
Total	59

Based on above information:

- a) Develop a Pareto diagram. (10 marks)
- b) Based on the diagram from (a), analyze the information to be presented to the Managing Director. (10 marks)
- c) Pareto is considered to be a powerful quality and decision-making tools. However, Pareto does have some weaknesses. Explain **FOUR (4)** limitation of Pareto. (8 marks)

QUESTION 4

Production planning involve management decisions on the resources that the firm require for its manufacturing operation to produce the desired goods at the least possible cost. Meanwhile, production control seeks everything goes as per plan.

- a) Describe **FOUR (4)** importance of production planning and control. (8 marks)
- b) Explain **SIX (6)** techniques of production planning and control. (12 marks)

QUESTION 5

Value Analysis is one of the major technique of cost reduction and control. It is a disciplined approach which ensures the necessary functions for the minimum cost without sacrifice quality, reliability, performance and appearance.

- a) Describe **FIVE (5)** strategies to reduce cost. (10 marks)
- b) Explain **FIVE (5)** basic principles of managing costs in production. (10 marks)

-----End of question-----