

FIFTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING AND
TECHNOLOGY / COMMERCIAL PRACTICE / MANAGEMENT

INDUSTRIAL MANAGEMENT AND SAFETY

Time: 3 hours

Maximum Marks: 75

PART A

**I. Answer all questions in one word or one sentence. Each question carries one mark.
(9 x 1 = 9 Marks)**

1	_____ is a system used to define a hierarchy within an organization.	M 1.04	R
2	_____ is a right of an individual to give orders and instructions.	M 1.01	R
3	Write the full form of TQM.	M 2.03	R
4	An event which occurs before another event is called _____	M 3.01	R
5	CPM stands for _____	M3.01	R
6	Write any two unsafe conditions of a worker in industry.	M 4.01	R
7	_____ may be defined as the sum of money paid under contract by an employer to worker for services rendered.	M 1.04	R
8	_____ is the earliest possible time at which an activity can finish.	M 3.01	R
9	What do you mean by quality?	M 2.01	R

PART B

**II. Answer any eight questions from the following. Each question carries 3 marks
(8 x 3 = 24 Marks)**

1	Give note on Just in Time.	M 2.07	U
2	Write the importance of training in industry.	M 1.03	U
3	List out the dimensions of quality.	M 2.01	U
4	Describe the functions of Management.	M 1.01	U
5	Define the terms optimistic time, most likely time ,pessimistic time used in PERT.	M 3.01	R

6	Describe the steps in Job Evaluation.	M 1.02	U
7	Write any three difference between CPM and PERT.	M 3.01	U
8	List out any three unsafe acts of a worker.	M 4.01	R
9	Define the following terms (i)Accident.(ii) Performance index (iii) Severity rate	M 4.01	R
10	Explain the steps to find the solution for LPP.	M 3.05	A

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

III	Explain about the different types of Organizational Structure. OR	M 1.04	U
IV	Explain briefly about the Henry Fayol's 14 Principles of Management.	M 1.01	U
V	Explain briefly about ABC inventory model. OR	M2.05	U
VI	Describe in detail about ISO 9000 Series.	M2.02	U
VII	Write the applications of CPM and PERT. OR	M 3.03	A
VIII	A furniture manufacturer makes two products x_1 and x_2 namely chairs and tables. Each chair contributes a profit of Rs.20 and each table that of Rs.40. Chairs and tables from raw material to finished product processed in three sections S_1, S_2 and S_3 . In section S_1 each chair(x_1) requires 1 hour and each table(x_2) requires 4 hours of processing. In section S_2 each chair requires 3 hours and each table requires 1 hour and in section S_3 the times are 1 hour and 1 hour respectively. The manufacturer wants to optimize his profits if sections S_1, S_2 and S_3 can be availed for not more than 24, 21 and 8 hours respectively.	M 3.05	A
IX	Describe about the 4E's of accident prevention technique OR	M4.02	U
X	Explain about the precautions to be observed in preventing accident while working in hazardous environment.	M4.02	U
XI	Explain about the ten manthras of TQM. OR	M 2.03	U
XII	Describe about the concept of linear programming.	M 3.04	A
XIII	Explain briefly the terms used in CPM OR	M 3.01	U
XIV	List out the types of Incentives and explain each one of it.	M 1.04	U