

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 the art of knowing what you want to do and then seeing that it is done in the best and cheapest way.	M 1.01	R
2	Give 1 example each for private limited and public limited company.	M 1.04	R
3	Define Quality.	M 2.01	R
4	An event which follows another event is called _____	M 3.01	R
5	PERT stands for _____	M3.01	R
6	Write any two unsafe acts of a worker.	M 4.01	R
7	List out the types of incentives.	M 1.04	R
8	_____ is the difference between LFT and EFT.	M 3.01	R
9	Write the full form of ISO.	M 2.02	R

**PART B**

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

1	Explain the functions of Management.	M 1.01	U
2	What are the factors affecting manpower planning?	M 1.02	U
3	Distinguish centralized store and decentralized store.	M 2.05	U
4	Write short note on Just in Time.	M 2.07	U
5	Differentiate between CPM and PERT.	M 3.01	U

6	Write any three contributions of F.W Taylor in Management.	M 1.01	U
7	Define the three time estimates used in PERT.	M 3.01	R
8	List out any three roles of safety officer in industry.	M 4.02	U
9	Describe the steps to find the solution for LPP.	M 3.05	A
10	Define the following terms (i)Accident proneness.(ii) Frequency rate (iii)Performance index	M 4.01	R

**PART C**

**Answer all questions. Each question carries seven marks**

**(6 x 7 = 42 Marks)**

III	Explain briefly about the Henry Fayol's 14 Principles of Management.	M 1.01	U
	<b>OR</b>		
IV	Describe briefly about the different types of ownership	M 1.04	U
V	List out the types of inventory model. Explain any one of it.	M2.05	U
	<b>OR</b>		
VI	Explain in detail the steps for the installation of ISO 9000.	M2.02	U
VII	Explain about the concept of linear programming.	M 3.04	A
	<b>OR</b>		
VIII	Solve the following linear programming problem graphically Minimize $Z=2x + 3y$ , Subject to $x + y \geq 6$ $2x + y \geq 7$ $x + 4y \geq 8$ $x, y \geq 0$	M 3.03	A
IX	Describe about the precautions to be carried out when handling electrical equipment in industry.	M4.02	U
	<b>OR</b>		
X	Explain in detail the causes of accidents	M4.01	U
XI	Enumerate the main functions of a store keeper.	M 2.06	U
	<b>OR</b>		
XII	Write the applications of CPM and PERT.	M 3.03	A
XIII	List out the types of Wages and explain each one of it.	M 1.04	U
	<b>OR</b>		
XIV	Explain briefly the terms used in CPM	M 3.01	U