

**1037****Code : 15MC53T**Register  
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**V Semester Diploma Examination, Nov./Dec.-2018****INDUSTRIAL ENGINEERING AND MANAGEMENT****Time : 3 Hours ]****[ Max. Marks : 100****Note :** Answer any **six** questions from Part – A & **seven** questions from Part – B.**Published By:****PART – A**Answer any **six** questions.

1. Explain the functions of a manager. 5
2. Explain production. Write the factors to improve productivity. 5
3. Explain Management Information System (MIS). 5
4. Explain quality. List the factors affecting quality of a product. 5
5. Explain the cause and effect of diagram. 5
6. Explain the concept of six sigma. 5
7. Explain safety provision under Indian Factories Act, 1948. 5
8. Explain the Occupational Health & Safety Management System (OHSAS). 5
9. Explain Industrial accidents. 5

## PART – B

Answer any **seven** full questions.

10. (a) Explain functional organization and mention its advantages. 7  
(b) Mention the limitations of the functional organisation. 3
11. (a) Explain different methods of purchasing. 7  
(b) Explain the duties of a purchasing officer. 3
12. (a) Explain the concept of MRP. 7  
(b) Explain TPM. 3
13. (a) Explain TQM. List the various TQM tools. 7  
(b) Explain PDCA cycle. 3
14. (a) Explain lean manufacturing. Mention its objectives. 7  
(b) Explain Kanban concept. 3
15. (a) Explain the concept of 5S. 5  
(b) Explain the basic concept of World Class Manufacturing (WCM). 5
16. (a) Explain health provision under Indian Factories Act, 1948. 5  
(b) Explain the objectives of ILO. 5
17. (a) Explain the salient features of Payment of Gratuity Act, 1972. 5  
(b) Explain Minimum Wages Act, 1948. 5
18. (a) Explain Green House effect. 5  
(b) Explain air pollution. 5
19. (a) Explain global warming with its effect. 5  
(b) Explain Ozone layer depletion. 5