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**Question Paper Code: 52107**

M.E. DEGREE EXAMINATION, NOV 2016

Elective

CAD / CAM

15PCD517- MAINTENANCE ENGINEERING AND MANAGEMENT

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) Discuss the functions and responsibility of maintenance department in a milk processing industry. (20)

Or

- (b) Discuss the concept of Tero technology in maintenance. (20)

2. (a) Discuss in detail the types of preventive maintenance. (20)

Or

- (b) (i) Explain the minimum down time inspecting decision with suitable illustration.(10)

- (ii) Identify which type of industries has to go for maximizing the profit as an inspection decision and justify your selection. (10)

3. (a) With suitable examples explain the various maintenance planning techniques. (20)

Or

- (b) Explain the concept of spares planning in detail. (20)

4. (a) Analyze the concept of design for maintainability in detail. (20)

Or

(b) Explain the detailed FMEA design procedure for the bolt manufacturing industry. (20)

5. (a) Explain about the pillars of total productive maintenance. (20)

Or

(b) (i) With a suitable illustration explain how a chronic loss occurs in an industry. (15)

(ii) Describe the difference between TQM and TPM. (5)

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