

381847(37)

B. E. (Eighth Semester) Examination, 2020

APR-MAY

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(New Scheme)

[Specialization : Mechanical (Production)]

(Production Engg. Branch)

MAINTENANCE MANAGEMENT

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part (a) is compulsory and attempt any two from (b), (c) and (d).

Unit-I

1. (a) Define principle of maintainance planning. 2
- (b) Write objective and principles of planned maintenance activity. 7

- (c) Write short notes : 7
- (i) MTBF
 - (ii) MINT
- (d) Explain maintenance economics and maintenance organization. 7

Unit-II

2. (a) Define preventive maintenance. 2
- (b) Write short notes : 7
- (i) Repair cycle
 - (ii) TPM
- (c) Describe maintenance schedules and also explain maintenance categories. 7
- (d) Explain principle and methods of Lubrication system. 7

Unit-III

3. (a) Explain Pistol thermometers. 2
- (b) Describe On-load and off load testing with suitable examples. 7

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(c) Define condition monitoring and explain instruments for condition monitoring. 7

(d) Explain :

(i) Temperature sensitive tapes

(ii) Wear-debris analysis 7

Unit-IV

4. (a) Write difference between head screw and bearings. 2

(b) Write short notes on : (any two)

(i) Gears

(ii) Spindles

(iii) Slideways 7

(c) Write short notes on logical fault and lubrication method with examples. 7

(d) Explain :

(i) Sequential fault location

(ii) Failure analysis 7

Unit-V

5. (a) Define Material Handling. 2

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- (b) Write different types of Material Handling equipment with suitable sketch and also explain advantage and application of Material Handling. 7
- (c) Write short notes on :
- (i) Job order system
 - (ii) Repair methods for Material Handling 7
- (d) Explain use of computers in maintenance. 7