Roll No ....

ME-8004 (3) (CBGS)
B.E. VIII Semester
Examination, May 2019
Choice Based Grading System (CBGS)
Maintenance Management

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

     ii) All questions carry equal marks.

1. a) How maintenance can be defined? Explain the difference between preventive maintenance and predictive maintenance.   7

   b) Discuss the importance of maintenance engineering in safety.   7

2. a) What is design out maintenance? Is it possible to achieve the objectives of design out maintenance in all operating system.   7

   b) Describe the on-line and off-line condition based maintenance.   7

3. a) Define the term 'Maintainability'. What factor affect maintainability.   7

   b) Write short notes on: 7

     i) Universal maintenance procedures

     ii) Shutdown programs

4. a) Explain maintenance planning and scheduling by assuming a suitable example.   7

   b) How 'management functions' differ from 'administrative functions' specially in the context of 'differentiation' and 'integration' activities involved in realising the organisational objectives?   7

5. a) Suppose you are a maintenance manager then how will you plan the maximum use of computer based management information systems. Also discuss its benefits.   7

   b) How maintenance data is documentations? Giving an examples of machine maintenance.   7

6. a) Compare sliding and rolling contact bearings. State any four advantages and three disadvantages of rolling contact bearings. http://www.rgpvonline.com   7

   b) What are different types and applications of lubricants? Explain lubrication process.   7

7. a) Analyse the seal and packing failure and its mechanism.   7

   b) Discuss the maintenance procedure for hydraulic components. Also compare it with pneumatic components maintenance.   7

8. a) Explain the terms "failure characteristics" and "failure data analysis".   7

   b) What are different models far one way classification analysis of variance? Explain.   7

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