

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

[2]

Roll No

MMIP-301(C)**M.E./M.Tech., III Semester**

Examination, November 2018

Reliability and Total Productive Maintenance

(Elective - I)

Time : Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain different functions of Reliability. 7
b) Explain Maintainability of Reliability with examples. 7
2. a) Explain requirements of Weibull reliability. 7
b) Explain different types of Availability. 7
3. a) Write a notes on Environment and stress. 4
b) Explain Complex systems. 3
c) Explain block diagram of Reliability. Give notes on RDB Analysis. 7
4. a) Discuss FMEA with neat diagram. 7
b) Give notes on Fault tree. 4
c) How will you calculate system reliability of subsystem connected in series? 3
5. a) What are the different policies in downtime maintenance? 7
b) Explain different Replacement Models. 7

MMIP-301(C)

PTO

321

6. a) Discuss in briefly about Maintenance and Management. 7
b) Explain Fault tree analysis and Hazard models with example. 7
7. a) Explain Duane Curve with example. 7
b) Explain different Risk Assessment. 4
c) Explain working principle of TPM methodology. 3
8. Write a short notes on the following. 14
a) Exponential
b) Log normal
c) Gamma
d) Growth Testing

MMIP-301(C)