

[2]

7. Write short notes on any *two* : 10×2=20
- a) Bath tub curve
 - b) Six sigma
 - c) Line balancing
 - d) Fault tree analysis

Ex/Prod/T/414/2017(S)

**BACHELOR OF ENGINEERING IN PRODUCTION ENGINEERING
EXAMINATION, 2017**

(4th Year, 1st Semester, Supplementary)

PLANT AND MAINTENANCE ENGINEERING

Time : Three hours

Full Marks : 100

Answer *any five* questions

1. “Plant and Maintenance Engineering is not an esoteric subject”
Make a critical comment on this proposition. 20
2. a) Discuss the importance of studying TERO
TECHNOLOGY in the content of maintenance
engineering. 18
b) What is marginal reliability? 2
3. Elucidate at least two plant location theories known to you
with examples. 20
4. Deduce the general reliability function of an engineering
system. Also show the different hazard models. 20
5. a) What is meant by ‘Techno-Economic life’ of an
engineering system? 5
b) Explain the different models associated with it. 15
6. Discuss epistemology of total productive maintenance (TPM)
with suitable examples. 20

[Turn over