

“Please check whether you have got the right question paper.”

- i) Question no 1 & 6 are compulsory.
- ii) Solve any two questions from remaining in each section.
- iii) Assume suitable data if required.

SECTION-A

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|-----|--|----|
| Q.1 | Solve <u>any two</u> . | 12 |
| | a) Explain the concept of probability & reliability. | |
| | b) Explain the reliability management | |
| | c) Explain failure rate & failure density. | |
| Q.2 | Explain the different types of statistical distribution. | 14 |
| Q.3 | a) Explain the fault tree method. | 07 |
| | b) Explain the event tree method. | 07 |
| Q.4 | a) Explain the procedure for model selection for component failure. | 07 |
| | b) Explain the design process. | 07 |
| Q.5 | a) Explain the reliability allocation. | 07 |
| | b) Calculate the system reliability of configuration shown in figure 01. | 07 |

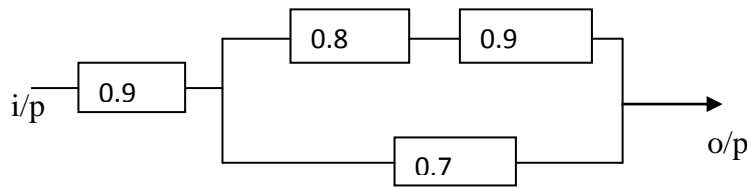


figure no-01.

SECTION-B

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|------|---|----|
| Q.6 | Solve <u>any two</u> . | 12 |
| | a) Explain the design for reliability. | |
| | b) Explain the reliability improvement. | |
| | c) Explain the maintainability & maintenance. | |
| Q.7 | a) Explain the term technology. | 07 |
| | b) Explain the basic rules for success. | 07 |
| Q.8 | a) Explain the total productive maintenance | 07 |
| | b) Explain in the production on maintenance system a dynamic model. | 07 |
| Q.9 | a) Explain the maintenance organization. | 07 |
| | b) Explain the concept of life cycle. | 07 |
| Q.10 | a) Explain the basic requirement of maintenance planning & control. | 07 |
| | b) Explain the role of computers in maintenance planning & control. | 07 |