No. of Printed Pages: 3

BME-007

B. Tech. MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)/ B. Tech. AEROSPACE ENGINEERING (BTAE)

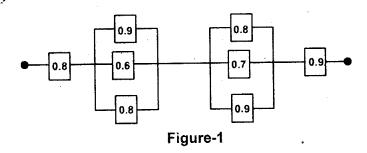
Term-End Examination, 2019

BME-007: QUALITY ENGINEERING

Time: 3 Hours [Maximum Marks: 70

Note : Answer **any seven** question. **All** questions carry **equal** marks. Use of Scientific Calculator is allowed. Assume suitable data if required.

- 1. Describe the concept of TQM. Discuss the various approaches to achieve TQM. [4+6=10]
- Distinguish between process FMEA and design FMEA.
 What are the benefits of FMEA? [6+4=10]
- Explain the concept of quality. Discuss the various types of quality costs. Describe the elements of cost of quality.
 [3+4+3=10]
- 4. Compute the reliability of the system as shown in Figure-1: [10]



- Describe the concept of Quality Function Deployment
 (QFD). List the merits and demerits of QFD. [5+5=10]
- 6. What is Quality Audit? Name and describe the various types of quality audits. [10]
- 7. Define Customer. What are needs of Customer? What are customer values and how do they affect company's performance? [10]
- 8. Distinguish between Deming Prize and Baldrige Award.
 Why do the companies apply for these awards? [10]
- What are the seven basic tools of SQL? Explain any five in detail. [10]
- 10. Write short notes on any two of the following: [2×5=10]
 - (a) Control Chart

- (b) Benchmarking
- (c) ISO 14000
- (d) Cause and effect diagram

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