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## MEDI/MTDE-302(C)

## M.E./M.Tech. III Semester

Examination, November 2018

## Safety and Reliability

Time: Three Hours

Maximum Marks: 70

Note: i) Answer any five questions.

- ii) All questions carry equal marks.
- 1. What is Markov Model and how is it different from Hidden Markov Model?
- 2. What do you understand by "Safety Measurement"? Explain why, when, who and how of it.
- 3. Write short notes from the following: (Any two)
  - a) Reliability
  - Safety b)
  - Quality Assurance
  - Quality Audit
- 4. What is the purpose of Fault Tree Analysis (FTA)? Briefly write on how FTA can be used to identify possible cause of a specified undescribed event in a system.
- 5. Describe Product Development Cycle and briefly discuss about the role of quality control during various stages of the said cycle.

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6. What are the different methods of measuring reliability? Write short notes on at least one of them.

- 7. What are the basic elements of a quality control system? And what are the important practical considerations in developing a quality control system, you would like to suggest?
- 8. Discuss about the need for Preliminary Hazard Analysis (PHA). And briefly explain PHA process.

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