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CSH 503

Third Semester M.Sc. Degree Examination, December 2018/January 2019
COMPUTER SCIENCE
Software Engineering

Time : 3 Hours

Max. Marks : 70

Note : Answer **any five** questions. **All** questions carry **equal** marks.

1. a) Define software engineering. Explain the applications of software engineering. 7
b) Briefly explain the software engineering ethics in detail. 7
2. a) Explain the different types of process activities in software engineering. 7
b) Briefly explain the Boehm's spiral model with neat diagram. 7
3. a) Differentiate between plan-driven approach and agile development approach. 7
b) Briefly explain the agile project management in detail. 7
4. a) Explain the different types of non-functional requirements. 7
b) What is SRS ? Explain the software requirements document. 7
5. a) What is a behavioral model ? Explain the two types of behavioral models to describe the overall behavior of a system. 7
b) What is the interaction model ? Briefly discuss the different approaches to interaction modeling. 7
6. a) What do you mean by open source development ? Explain open source licensing. 7
b) What is software verification ? Explain the various approaches for software verification. 7

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- 7. a) What is software testing ? Explain various types of software testing. 7
 - b) Discuss release testing along with MHC-PMC. 7

 - 8. a) What do you mean by the software evolution process ? Explain strategies of software evolution. 7
 - b) Define “Program evolution Dynamics”. Discuss the Lehman laws for program evolution dynamics. 7
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