MCA-302

M.C.A. III Semester

Examination, November 2019

Software Engineering Methodology

Time: Three Hours

Maximum Marks: 70

Attempt any five questions. Note: i)

- ii) All questions carry equal marks.
- Define system. Write characteristics of a system.
 - b) What are the major phases in the waterfall model of software development? Which phase consumes maximum effort for developing a software product?
- Write features of various information gathering tools in brief.
 - Describe spiral model of software development. Write its advantages.
- What are the different categories of software development projects according to the Cocomo estimation model? Give example of each category.
 - b) What is cohesion? Describe classification of cohesiveness. Explain each type of cohesion.
- 4. a) What is layered software design technique? What are its advantages? Give suitable example.
 - b) What is risk analysis? What measures should be taken to reduce failure rate of a software?

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- Write and explain various steps of RAD model. Write its advantages and disadvantages.
 - What is data flow diagram? Describe the primitive symbols used and the purpose of various levels of DFD with the help of suitable example.
- Briefly describe formal approaches to software quality assurance. http://www.rgpvonline.com
 - b) What is SRS? Describe characteristics of a good SRS document.
- Explain black box testing. What are the various approaches available to design black box test cases.
 - Describe integration testing. Give an overview of some approaches to integration testing.
- Compare MIS and DSS. Write in brief about different types of DSS.
 - Explain the following:
 - O O Software Engineering
 - Case tools





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