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## MCA-302

### M.C.A. III Semester

Examination, June 2020

### Software Engineering Methodology

**Time : Three Hours**

**Maximum Marks : 70**

**Note :** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain about software Engineering paradigm in detail. 7  
b) Explain the concepts of system. Also write the elements and characteristics of system. 7
2. a) Explain the role of system analyst to design a software. 7  
b) Process-Based Estimation Vs Tool-Based Estimation. Explain 7
3. a) Explain the following: 14  
i) Linear sequential model  
ii) Prototyping model  
iii) RAID model  
iv) Evolutionary software process model
4. a) Explain the various activities covered by software project management. 7  
b) Give an outline of step wise planning activities for a project with neat diagram. 7

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5. a) Explain the term cohesion and coupling with appropriate examples: 7  
b) Explain in detail about five views of software quality and objectives of SQA. 7
6. a) Demonstrate SQA activities in software development and software maintenance. 7  
b) What is DSS? Explain the components and features of DSS. 7
7. Explain the following: 14  
i) Unit Testing  
ii) Integration testing  
iii) Validation testing  
iv) System testing
8. a) Brief about Structured Analysis Vs Object Oriented Analysis. 7  
b) Discuss about various information gathering tools. 7

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