

Roll No

MCA-302**M.C.A. III Semester**

Examination, December 2017

Software Engineering Methodology*Time : Three Hours**Maximum Marks : 70*

- Note :* i) Attempt any five questions.
ii) All questions carry equal marks.

1. Discuss the major differences between software engineering and some other engineering discipline, such as bridge design or house building. Would you consider state-of-the-art software engineering as a true engineering discipline?
2. Explain the ways and means for collecting the software requirements and how are they organized and represented.
3. Describe the salient features of spiral model of software process with an illustration diagram.
4. Describe the various phases of RAD model and list out the model's strengths and weaknesses.
5. What do you mean by the terms cohesion and coupling in the context of software design? How are these concepts useful in arriving at a good design of a system?

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6. Briefly outline the five steps involved in constructing a Work Break Down structure of a software project.
7. Discuss about software quality factors and attributes.
8. Answer any four of the following :
 - a) What do understand by Requirement Engineering?
 - b) Explain Software Quality and Quality Assurance?
 - c) Assuming the Putnam model and given $S = 1,00,000$, $C = 5000$ and $D_0 = 15$. Calculate the development time t_d .
 - d) How is software design different from coding?
 - e) What is "integration testing". And how you will apply integration testing.
 - f) Give different types of tools available in DSS.

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