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Roll No

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MCA-302

M.C.A. III Semester

Examination, November 2018

Software Engineering Methodology

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- a) Explain spiral model and describe its advantages over waterfall model.
 - What do you mean by feasibility study? Explain feasibility study of collage management system.
- a) Outline the software development life cycle. Briefly describe each of the stages its relation to other stages and its overall importance.
 - b) How do we define Software Quality and Software Reliability? Describe briefly the terms:
 - i) Quality of design
 - ii) Quality of conformance
 - iii) MTBF
- 3. a) Explain cost estimation COCOMO model with example.
 - b) What is Design? Discuss the objectives of software design?

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- . a) Give a brief note on software measurement.
 - What do you mean by cohesion and coupling? Explain different types of cohesion and coupling.
- a) What are the fundamental principle of user interface design? Explain and enumerate the end user requirement in user interface design.
 - b) What risks are involved in designing a software? How can we overcome them?
- a) Define Software Quality Assurance (SQA) and explain SQA activities.
 - b) What is testing? What is debugging? Draw the spiral diagram showing testing strategies with phase of software development.
- 7. a) Compare object oriented analysis of software with that of structural software engineering approach.
 - b) What is Decision Support System? Explain types of DSS.
- 8. a) What does CASE stands for? Explain all the CASE components.
 - b) Write short notes:
 - i) Re-Engineering
 - ii) Formal technical review

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