MCA DEGREE III SEMESTER EXAMINATION NOVEMBER 2013

CAS 2304 SOFTWARE ENGINEERING

(New Scheme - 2010 Admission onwards)
(Regular & Supplementary)

Time: 3 Hours Maximum Marks : 50

PART A

(Answer *ALL* questions)

(15 x 2 = 30)

I. (a) What is meant by software process model?
(b) Write the demerits of linear sequential model.
(c) What specialized strategies and methods are used to design web apps?

II. (a) Write a short note on collaborative requirements gathering.
(b) Write the procedure to write effective use cases.
(c) Why do we say that the requirements model represents a snapshot of a system in time?

III. (a) Write the rules of thumb that should be followed when creating the analysis model.
(b) What is the purpose of domain analysis? How is it related to the concept of requirements patterns?
(c) Write a note on Swimlane diagrams.

IV. (a) Write a note on SCM process.
(b) Why is "chunking" important during the component-level design review process?
(c) Why are control components necessary in traditional software and generally not required in object oriented software?

V. (a) Differentiate between verification and validation.
(b) Write the difference between top-down integration and bottom-up integration.
(c) Why is a highly coupled module difficult to unit test?

PART B

(5 x 4 = 20)

VI. A. Explain the prescriptive process model in detail.
OR
B. Explain specialised process models in detail.

VII. A. Explain the generic elements of the requirements model.
OR
B. Explain the concept of quality function deployment.

VIII. A. What is meant by software architecture? Why is architecture important?
OR
B. Explain the concept of class based modelling in detail.

IX. A. Explain the user interface design process in detail.
OR
B. Describe the steps to be followed for component level design, when it is applied for an object oriented system.

X. A. Describe the difference between black box testing and white box testing.
OR
B. Explain the strategic issues in software testing in detail.

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