

MCA (Revised)
Term-End Examination

06823

June, 2015

MCS-034 : SOFTWARE ENGINEERING

Time : 3 hours

Maximum Marks : 100

(Weightage 75%)

Note : *Question no. 1 is compulsory. Attempt any three questions from the rest.*

1. (a) What are the different levels of Capability Maturity Model ? Describe them. 10
 - (b) Explain all the phases of the Waterfall Model with the help of a diagram. 10
 - (c) Define "Baseline". What is its significance ? How can it be changed ? 10
 - (d) Draw level-0, level-1 and level-2 DFDs for a Student Information System. Make necessary assumptions. Mention the assumptions made. 10
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2. (a) Explain Cleanroom Software Engineering with the help of a diagram. 10
 - (b) Explain GSM architecture with the help of a diagram. 10

3. (a) Define “Black Box Testing” and “White Box Testing”. Explain the differences between them. 10

(b) Describe the categories of Risk Management. 10

4. (a) How does software differ from other engineering products ? Explain with examples. 10

(b) What are the different methods used for estimating Cost and Effort required for completing a project successfully ? Explain any one method in detail. 10

5. (a) Define “Coupling” and “Cohesion”. Explain the relation between them. 10

(b) Explain McCall’s Quality Factors. 10