

03731

MCA (Revised)

Term-End Examination

December, 2011

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.

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1. (a) Explain various approaches for the Formal Technical Review. Also, mention the expected results from the respective approaches. **10**
 - (b) Explain the following : **10**
 - (i) Work Break through structure
 - (ii) Flow Graph
 - (c) Explain any two techniques of s/w prototype development. Also mention the pros and cons of prototyping. **10**
 - (d) With the help of a neat diagram, explain cleanroom software engineering. **10**

2. (a) What are the various Core metrics to be measured and analysed for the web - applications ? Explain them briefly. 10
- (b) Explain the step-by-step evolutionary view of the s/w Reengineering life-cycle. 10
3. (a) List all the elements of a Good Interface design. 10
- (b) "S/w Requirements Specification (SRS) is generated as the o/p of Requirement Analysis." Explain the properties and the outlines of the SRS. Also mention various features which makes the requirements analysis difficult. 10
4. (a) With the help of any example, explain the concept of Mutation testing strategy. 10
- (b) Draw levels - 0, 1 and 2. DFD's for an Open University Management system. Make necessary assumptions and list them all. 10
5. Write short notes on *any four* of the following : 4x5=20
- (a) Key Process Areas (KPA) of Maturity level.
- (b) Domain Engineering
- (c) Architecture of GSM
- (d) Coverage Based Testing
- (e) Iterative Enhancement Model.
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