No. of Printed Pages : 3

MCS-034

MCA (Revised) Term-End Examination June, 2013

MCS-034 : SOFTWARE ENGINEERING

Time : 3 hours

01174

Maximum Marks : 100 (Weightage : 75%)

- *Note* : *Question No.* **1** *is Compulsory.**Attempt any three**questions from the rest.*
- (a) Describe Putnam's model of cost-estimation 10 for s/w development.
 - (b) With reference to Requirements 10 Engineering, explain the following :
 - (i) Types of requirements
 - (ii) Requirements gathering tools
 - (c) Define CASE tools. Explain any two 10 categories of CASE tools.
 - (d) Define the term Risk. Explain the different 10 phases of Risk Management.

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P.T.O.

 An university wants to automate the registration, scheduling of classes and attandance system of the students.

The main objectives of the system are :

- (a) Online Enquiry
- (b) Online registration
- (c) To view the scheduling of classes, online.
- (d) Availability of online records of teachers and students.
- (e) Online view of the attendance by the students.
- (f) Practicals-batch scheduling etc.

In the above-mentioned objectives :

(i)	Design DFD's (upto level - 2).	4
(ii)	Prepare SRS document.	5
(iii)	Design ER-Diagram.	3
(iv)	Draw project scheduling chart.	3
(v)	Specify the s/w development life cycle model for the given specifications.	5
(a)	With the help of a neat diagram, explain the process of software Re-engineering.	10

(b) Describe the s/w configuration 10 management process.

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3.

2

- (a) Explain product matrics and process 10 matrics with the help of suitable examples.
 - (b) Write a suitable example program segment 10 and illustrate the Boundary-Value Analysis testing strategy.
- 5. Write short notes on :

(a)

Version control in s/w development

20

- (b) Cleanroom s/w engineering
- (c) Software quality and CASE tools.
- (d) Software reliability.