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Code No.: 125 S

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.C.A. I Year II-Semester (Supplementary) Examinations, December-2015

Software Engineering

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE questions from Part-B

Part-A (10 X 2=20 Marks)

1. Justify why industrial strength software is expensive?
2. Explain why different methods are employed to develop small and large software projects?
3. State the basic purpose of SRS.
4. Explain the significance of 'requirements validation'.
5. Write the reasons for uncertainties in effort estimation.
6. List the sub activities of scheduling activity.
7. Define memory leak and explain how it leads to software failure.
8. Differentiate between static program structure and dynamic program structure.
9. List the types of Process Patterns.
10. Distinguish between restructuring and forward engineering.

Part-B (5 X 10=50 Marks)
(All bits carry equal marks)

11. a) Describe the attributes of software quality.
b) Write the limitations of waterfall model.
12. a) Explain about the characteristics of an SRS.
b) Define use case. Explain terminology of use cases.
13. a) Discuss Project Scheduling and Staffing.
b) Explain the concepts of function oriented design.
14. a) Explain incremental coding process with a neat diagram.
b) List the items to be included in a checklist for code reviews.
15. a) Explain about the different levels in CMMI model.
b) Show the framework activities defined by personal software process model.
16. a) Explain about the pipelined execution of the time boxing process.
b) Describe pipe and filter style of architecture.
17. Answer any two of the following:
 - a) If some existing modules are to be reused in building a new system, will you use top down or bottom up approach? Explain.
 - b) Explain about pair wise testing with an example.
 - c) Explain about the activities of business process reengineering with a neat diagram.