Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 17315

M.E. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Third Semester

Computer Science and Engineering

CP 7301 — SOFTWARE PROCESS AND PROJECT MANAGEMENT

(Regulations 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define : Software process.
2. What is Extreme programming?
3. Mention the phases requirements elicitation.
4. Write the importance of version control.
5. Is it possible to identify obsolete software requirements? Justify your answer.
6. List any two features of Delphi method.
7. What is software maturity index?
8. Name a few software quality models used by IT industries.
9. Distinguish between Fault and Failure.
10. Write about the term process base lining.

PART B — (5 × 13 = 65 marks)

11. (a) Explain briefly the different phases in Software Development Lifecycle (SDLC).

Or

(b) (i) Compare Personal Software Process (PSP) and Team Software Process (TSP). (5)

(ii) How are softwares developed using PSP? Discuss in detail. (8)

12. (a) List the salient features of Architecture Centric Development Method (ACDM).

Or

(b) How will you trace the requirements using Requirements Traceability Matrix (RTM)? Illustrate with suitable examples.

13. (a) How will you use risk mitigation plans to identify and prioritize risks? Give examples.

Or

(b) How will you measure the size of a software using Function Points (FP)? Illustrate with examples.

14. (a) What is Software Configuration Management? How it is carried out by project managers?

Or

(b) Explain briefly the integration testing. Explain the phased manner of its execution. (6 + 7)

15. (a) Discuss in detail on the various stages of CMMI.

Or

(b) How are software process models selected by project managers for software development in a software project? Discuss.

PART C — (1 × 15 = 15 marks)

16. (a) Propose your own software process model for developing a software in IOT environment.

Or

(b) How will you perform testing for a software that works in cloud computing environment? Discuss.

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