

Code: 9D25102

M.Tech I Semester Supplementary Examinations August 2016

ADVANCED SOFTWARE ENGINEERING

(Software Engineering)

(For students admitted in 2012, 2013, 2014 & 2015 only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Define software engineering. Discuss various software myths with proper illustrations.
(b) Shopping mall needs to be automated for billing and inventory management. As a consultant, which software process model you will suggest for software development and why?
- 2 (a) Compare and contrast unified, personal and team process model for process flow.
(b) What is extreme programming? State its application in agile development method.
- 3 (a) What are different methods for critical system specifications? What are their advantages and limitations?
(b) How formal specification methods are used in specifying critical systems? Give proper examples.
- 4 Apply component based software engineering approach for the development of banking software. You may use concepts such as reuse, design patterns and components for the same.
- 5 (a) Design any two test cases for testing college ERP system.
(b) What is software maintenance? Define MTBF, MTTR and availability in maintenance phase.
- 6 (a) How will you simplify the complex system development with AOSD? How separation is possible in AOSD?
(b) Describe service oriented software engineering with modeling and documentation aspect.
- 7 (a) Define software quality. State various methods for software measurement with their pros and cons.
(b) Write short note on – CMMI process framework.
- 8 Design a system architecture for logistics management system for shipping company with MDSD approach. Discuss the building blocks of this system in detail.
