

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 110852

Roll No.

B.TECH.

Theory Examination (Semester-VIII) 2015-16

SOFTWARE PROJECT MANAGEMENT

Time : 3 Hours

Max. Marks : 100

Section-A

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)

- What is project management? Explain the need for software project management.
- Differentiate between verification and validation.
- What are the different project organization types?
- What are the driving factors for achieving software quality?
- Write about results of major milestones in a modern process.

(1)

P.T.O.

(f) Explain with example software project control panel.

(g) Explain the steps for software estimation using Function Point Analysis (FPA).

(h) What is a test plan? List the contents of a test plan.

(i) What are the activities under software configuration management (SCM)?

(j) Give an overview of the artifact sets that make the development of a complete software system manageable.

Section-B

2. Attempt any five questions from this section.

(10×5=50)

- Consider a program with an initial of 10 failure/cpu and 100 total failures. Calculate the failure experienced after 10 and 100 cpu hour of execution.
- Differentiate the purpose of using network diagrams, Gantt chart and tracking Gantt chart?
- Draw a schematic diagram of the architecture of the CASE environment and explain how the different tools are integrated.

(2)

- (d) Explain with diagrammatic illustration the project management life cycle?
- (e) What do you mean by a project flow diagram? How does it help in project planning?
- (f) Is it practical to specify maintainability in SRS? How would you specify it? Would it be a testable requirement?
- (g) What are the benefits of using work breakdown structure (WBS)? What is a critical path? Why is it important to identify the critical path?
- (h) What are the different techniques for project monitoring and control?

Section-C

Note: Attempt any two questions from this section.

(15×2=30)

3. What is project scheduling? List and discuss the various project scheduling activities. What are the benefits of agile project management?
4. What are the software development modes in COCOMO? Give formula for effort / schedule estimation in basic COCOMO.

(3)

P.T.O.

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5. Write Short Note on

(a) EVA. SPI. CPI.

(b) Cyclomatic complexity.

(c) Functional and Structural testing.

(4)

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