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NMCAE33

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

Paper ID : 214559

Roll No.

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MCA

(SEM. V) THEORY EXAMINATION, 2015-16

SOFTWARE PROJECT MANAGEMENT

[Time:3 hours]

[Maximum Marks:100]

SECTION-A

Note : Attempt all parts. Write answer in brief. (2×10=20)

- Q1. (a) Who may be the stakeholders in a software project?
- (b) What are the different methods of work breakdown structure?
- (c) Effective software management focuses on three P's. Explain.
- (d) Explain the project monitoring and control process.
- (e) When should "Regression Testing" be performed?
- (f) What are Software Quality attributes?
- (g) What do you understand by the terms Change control and Version control.

- (h) What are different test levels?
- (i) Specify the various people involved in the SQA group.
- (j) Define different types of risks involved in software project management.

SECTION-B

Note: Attempt any five questions from this sections.

(10×5=50)

- Q2. What do you mean by 'Code Review'? Discuss the differences between Code Inspection and Walkthrough?
- Q3. What do you mean by Vision and Scope Document? Define the use of it.
- Q4. Write a short note on SEI Capability Maturity Model (CMM). Explain it with its structure and levels?
- Q5. Describe Cyclomatic Complexity with an example. Explain the significance of Cyclomatic complexity and describe how the Cyclomatic number is calculated?
- Q6. Compare PERT and CPM for similarities, differences. Describe their advantages and disadvantages.
- Q7. Discuss the different steps of preparing the schedule. What are the inputs and outputs required by schedule?

- Q8. What is meant by Software Configuration management?
What are the principal activities involved in SCM?
- Q9. Explain Project Monitoring and controlling process.
Explain different dimensions of project monitoring and control.

SECTION-C

Note: Attempt any two questions from this section.

(15×2=30)

- Q10. Explain any three of the following
- (a) Automation Testing
 - (b) SQA Approaches
 - (c) Validation and verification
 - (d) Unit testing and system testing
- Q11. What do you understand by “Earned value Analysis”?
Discuss the following progress indicators:
- (a) Cost variance
 - (b) Schedule performance Index(SPI)
 - (c) Cost Performance Index (CPI)
- Q12. What do you understand by the term “CASE” tools?
What are the main advantages of using CASE tools?
Discuss and draw the architecture of CASE environment.

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