



Name :

Roll No. :

Invigilator's Signature :

CS/MBA/SEM-4 FT & 6 PT/SM-404/2012

2012

SOFTWARE MANAGEMENT

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) A project manager has just become the manager of project. The document that recognizes the existence of the project is called
 - a) the statement of work
 - b) the project assignment
 - c) the project charter
 - d) the product description.
 - ii) Which form of software development model combines the iterative nature of the Prototyping Model with the controlled and systematic approach of the Waterfall model ?
 - a) Evolutionary model
 - b) Incremental Model
 - c) Putnam model
 - d) Spiral model.



- iii) The project life cycle differs from product life cycle in that the project life cycle
 - a) does not incorporate a methodology
 - b) is different for each industry
 - c) can spawn many projects
 - d) describes the project management activities.
- iv) A market demand, a business need, and/or legal requirements are examples of
 - a) reasons to hire a project manager
 - b) reasons for projects are initiated
 - c) reasons to sponsor a project
 - d) reasons for people become stakeholders.
- v) All of the following occur during the planning process group, *except*
 - a) develop project charter
 - b) create WBS
 - c) estimate costs
 - d) sequence activities.
- vi) What does TQM stand for ?
 - a) Time Quality Managed
 - b) Target Quality Management
 - c) Total Quality Management
 - d) Time Quote Management.
- vii) A project has three critical paths. What kind of impact does it have on the project ?
 - a) It makes the project easier to manage
 - b) It requires more people to complete the project in time
 - c) It increases the project risk
 - d) It makes the project more expensive.



- viii) Project Lifecycle costing is a
- a) method of including all of the costs associated with the project over its entire life
 - b) federal government accounting method
 - c) method of predicting the life of a project
 - d) method of evaluating projects when they are completed.
- ix) One of the fundamental tenets of quality management is that quality
- a) must exceed customers' expectation
 - b) is planned in and not inspected in
 - c) will increase cost
 - d) cost must be passed onto the customer.
- x) The Delphi technique is a way to
- a) analyze performance b) gather expert opinions
 - c) resolve conflict d) estimate durations.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. Write main disadvantages of Putnam's resource allocation model. What are method overloading and method overriding ? $2 + 3$
3. Describe cumulative and quantitative risk.
4. What are work break-down structure and CPM ?
5. Discuss Halstead's software model for determining effort and time estimation of software development.
6. Explain Spiral model.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) Write a brief note on Basic COCOMO. Compare various COCOMO models.



- b) Suppose you are developing a software product in organic and embedded mode. The size of the product is 32000 lines of code. Compute the ratios of nominal effort and developing time of the above two modes.
- 3 + 4 + 8
8. a) Describe 4G technique with its advantages.
b) Describe various stages of SDLC. What are the various types of models found in SDLC ?
c) Describe the functions of Human resource management. 6 + 4 + 5
9. a) What are the different types of cost estimation techniques ?
b) Describe risk monitoring and risk control in software management.
c) Describe software configuration management. 5 + 5 + 5
10. a) Why software project planning is needed ?
b) Write various activities of software project planning.
c) Explain several project evaluation criteria. 4 + 5 + 6
11. Write short notes on any *three* of the following : 3 × 5
- a) RAD model
 - b) Waterfall model
 - c) SPMP
 - d) Roles of project manager
 - e) WBS.

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