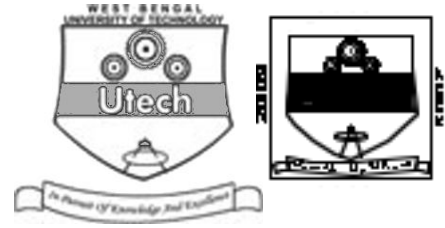


SOFTWARE MANAGEMENT (SEMESTERS - 4 & 6)

CS/MBA/SEM-(4 FT & 6 PT)/SM-404/09



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the Candidate

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CS/MBA/SEM-(4 FT & 6 PT)/SM-404/09
ENGINEERING & MANAGEMENT EXAMINATIONS, APRIL – 2009
SOFTWARE MANAGEMENT (SEMESTERS - 4 & 6)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

- This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
- a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
b) For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
- Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
- Read the instructions given inside carefully before answering.
- You should not forget to write the corresponding question numbers while answering.
- Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
- Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
- You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
- Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

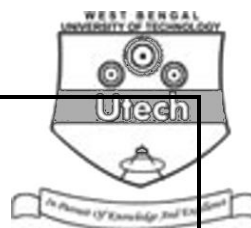
FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

Question Number	Group – A				Group – B				Group – C				Total Marks	Examiner's Signature
Marks Obtained														

.....
Head-Examiner / Co-Ordinator / Scrutineer

4467 (28/04)



DO NOT WRITE ON THIS PAGE



SOFTWARE MANAGEMENT

SEMESTERS - 4 & 6



Time : 3 Hours]

[Full Marks : 70

GROUP - A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10

i) System development model which includes all other models is

- | | |
|--------------|------------------|
| a) prototype | b) RAD |
| c) spiral | d) evolutionary. |
-

ii) The requirement analysis is not

- | |
|---|
| a) an attempt to improve an existing system |
| b) establishing a computer network |
| c) an effort in which requirements of a system are understood |
| d) an interdisciplinary approach to problem solving. |
-

iii) Critical path in project network diagram is

- | | |
|---------------------|-----------------------|
| a) longest path | b) deterministic path |
| c) problematic path | d) shortest path. |
-

iv) The second phase of CMM level is

- | | |
|---------------|-------------------|
| a) defined | b) managed |
| c) repeatable | d) none of these. |
-



v) Spiral model is called model.

a) final

b) finished

c) meta

d) build and fix.



vi) An activity with no duration and no resources in project network diagram is called

a) dumb activity

b) dummy activity

c) no activity

d) none of these.

vii) Which of the following helps IT project to succeed ?

a) Executive support

b) Reliable estimates

c) User involvement

d) All of these.

viii) COCOMO stands for

a) Customer Cost Model

b) Consumer Cost Model

c) Constructive Cost Model

d) Caizer Costing Model.

ix) Function point software metric does not include

a) number of user input

b) number of user output

c) number of files

d) number of access path.

x) Procurement process of software management includes

a) biding process

b) negotiation process

c) order placement

d) all of these.



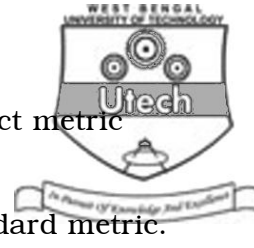
xi) Which of the following is not a software metric ?

a) Design metric

b) Project metric

c) Product metric

d) Standard metric.



xii) Which of the following is not generally considered a player in the software process ?

a) Customers

b) End-users

c) Project managers

d) Sales people.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.

3 × 5 = 15

2. What do you understand by quantitative and qualitative risk analysis ?
3. What are the various quality management techniques that project manager can use for software project management ? Explain some of these techniques.
4. Why do you think communication management is very vital for project manager ?
5. Discuss how win-win spiral model is useful in software development.
6. Discuss HALSTEAD's software model for determining effort and time estimation of software development.
7. Explain A-O-A network diagram.



GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

8. a) Describe fourth generation technique mentioning its advantages. 6
- b) Briefly describe various stages of SDLC. What are the various types of maintenance of SDLC ? 7 + 2
9. a) What do you understand by scope creeping ? Write its importance in scope management. 5
- b) Explain project charter. 5
- c) Explain WBS with an example. 5
10. a) Consider a software project with 5 tasks $T_1 - T_5$. Durations are 15, 10, 12, 25 and 10 respectively. T_2 and T_4 can start when T_1 is completed. T_3 can start when T_2 is completed. T_5 can start when both T_3 and T_4 are completed. Draw the project network diagram and lists the task that are on the critical path. 7
- b) 'Human Resource Management is important function for software management.' Explain. Highlight some of the steps you would take as software PM to reduce attrition rate from your project group. 4 + 4
11. a) Compare various COCOMO models. What are the disadvantages of Putnam model. 3 + 2
- b) What are different cost estimating techniques ? 5
- c) Suppose you are developing a software product in the organic mode. You have estimated the size of the product to be about 1,00,000 lines of code. Compute the nominal effort and the development time. You can make use of the following formula supplied to you :
- Organic : Effort = $2.4 * (KLOC)^{1.05}$ PM Development Time = $2.5 (Effort)^{0.38}$ months. 5



12. Write short notes on any *three* from the following :

- a) Procurement management
- b) SPMP
- c) Steps of communication management
- d) SEI - CMM model
- e) Cost of quality
- f) MS Project 2003.



END