CS/BCA (SUPPLE)/SEM-6/BCAE-602A/09

SOFTWARE PROJECT MANAGEMENT & QUALITY ASSURANCE (SEMESTER - 6)

1. .....
Signature of Invigilator

2. .....
Signature of the Officer-in-Charge

Reg. No. | | | | | | | | | | | | | | | |

Roll No. of the Candidate | | | | | | | | | | | | | | | |

CS/BCA (SUPPLE)/SEM-6/BCAE-602A/09

ENGINEERING & MANAGEMENT EXAMINATIONS, AUGUST – 2009

SOFTWARE PROJECT MANAGEMENT & QUALITY ASSURANCE (SEMESTER - 6)

Time : 3 Hours] [Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. 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.
2. 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.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. 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.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. 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**.
9. 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

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Marks Obtained

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

.....

Head-Examiner/Co-Ordinator/Scrutineer

S-54013 (18/08)

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GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives of the following : $10 \times 1 = 10$

i) COCOMO is a

a) physical device b) permanent memory

c) estimation model d) none of these. ☐

ii) KLOC denotes

a) kilogram lines of code b) kilo lines of code

c) metrics measurement d) software measurement. ☐

iii) MIPS is

a) Microchip Per Second

b) Million Instructions Per Second

c) Both (a) and (b)

d) Memory Instruction Chip Second. ☐

iv) PERT is

a) Performance Evaluated Review Test

b) Performance Evaluation and Review Technique

c) Parallel Evaluation and Review Technique. ☐

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v) FTR stands for

a) Formal Technical Review

b) First Technical Review

c) First Technical Report. ☐

vi) Novell Netware is a

a) system software b) operating system

c) hardware d) both (a) and (b). ☐

vii) Full form of ERP is

a) Entity Relation Program

b) Enterprise Resource Planning

c) Enterprise Resource Program

d) None of these. ☐

viii) What is the full form of SDLC ?

a) System Development Life Cycle

b) Software Development Life Cycle

c) Semiconductor Device Life Cycle

d) Both (a) and (b). ☐

ix) Intranet is

a) Network of resources b) Private user's network

c) Estimate technique d) Quality assurance measure. ☐

x) Extranet is a

a) single user O.S. b) large private network

c) utility software d) none of these. ☐

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GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. 3 ∞ 5 = 15

2. What is feasibility study ? Mention its types.

3. Define test suite ? What is test case ? Write difference between validation and verification ?

4. What are non-functional requirements ? Explain.

5. Who are the stakeholders in a software project ? State different types of stakeholders.

6. Explain McCall's quality control factor.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. 3 ∞ 15 = 45

7. What is software metrics ? What are the different types of software metrics ? Explain them in detail. 2 + 3 + 10

8. What is CMM ? Explain the levels of CMM. 7 + 8

9. Explain user interface design. What is object oriented design ? 7 + 8

10. Explain the various steps used to decide the cost of a proposed software system. Suppose we are developing software and expect to have about 5,00,000 lines of code. Compute the effort and the development time for each of the organic and embedded development mode. 5 + 10

11. Explain program evaluation and review technique in detail. 15

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12. a) Write the differences between any *two* of the following : 4 + 4

i) Alpha testing and Beta testing

ii) Verification and Validation

iii) ISO 9001 and CMM

iv) Waterfall model and Spiral model.

b) What is structured system design ? 7

END

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