



Name : .....  
Roll No. : .....  
Invigilator's Signature : .....

**CS/BCA/SEM-4/BCA-403/2012  
2012**

**SOFTWARE PROJECT MANAGEMENT &  
QUALITY ASSURANCE**

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 × 1 = 10
- i) Two tools for computing critical path and project completion times from activity networks are
    - a) CPM and PERT
    - b) DRE and SQA
    - c) FP and LOC
    - d) none of these.
  - ii) The linear sequential model of software development is also known as the
    - a) Classical life cycle model
    - b) Spiral model
    - c) Waterfall model
    - d) both (a) and (c).



- iii) The number of people required for a software project is determined
  - a) after an estimate of the development effort is made
  - b) by the size of the project budget
  - c) from an assessment of the technical complexity of the system
  - d) all of these.
- iv) Which of the following items are not measured by software project metrics ?
  - a) inputs
  - b) markets
  - c) outputs
  - d) none of these.
- v) Software reliability problems can almost always be traced to
  - a) errors in requirements gathering
  - b) errors in design and implementation
  - c) human error
  - d) errors in operation.
- vi) Outcome of requirement specification phase is
  - a) design document
  - b) develop an SRS
  - c) test the document
  - d) hand over the document.
- vii) Alpha testing is done by
  - a) customer
  - b) developer
  - c) tester
  - d) all of these.
- viii) PERT stands for
  - a) Project Evaluation and Review Technique
  - b) People Evaluation and Review Technique
  - c) Project Estimation and Review Technique
  - d) Product Evaluation and Review Technique.



- ix) Risk identification involves
- |                  |                   |
|------------------|-------------------|
| a) Project Risk  | b) Technical Risk |
| c) Business Risk | d) all of these.  |
- x) Prototype is a
- |   |
|---|
| a) mini model of the existing system    |
| b) mini model of the proposed system    |
| c) working model of the existing system |
| d) none of these.                       |

**GROUP – B**

**( Short Answer Type Questions )**

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

2. a) Compare and contrast waterfall model and spiral model.
- b) What do you mean by perfective maintenance ?  $3 + 2$
3. a) What do you mean by work breakdown structure ?
- b) Describe Gantt charts briefly.  $2 + 3$
4. What are the hierarchical orders of "peoples" involved in a software project ? Describe the tasks performed by each type of people in brief.  $2 + 3$
5. What is SPMP ? Why is it essential in S/W engineering ?  $2 + 3$
6. What are the 4Ps of Software Project Management ?

**GROUP – C**

**( Long Answer Type Questions )**

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

7. a) What do you mean by software quality ? Explain.
- b) Briefly discuss Mc call's Quality factors.
- c) What are the main functions of Quality Assurance Group ( QAG ) ?  $5 + 5 + 5$

