

**V/BCA/504**

**2016**

( 5th Semester )

**BACHELOR OF COMPUTER APPLICATION**

Paper No : BCA-504

**( Software Project Management )**

*Full Marks : 75*

*Time : 3 hours*

**( PART : B—DESCRIPTIVE )**

*( Marks : 50 )*

*The figures in the margin indicate full marks  
for the questions*

1. (a) What do you mean by software project management? Explain the role played by people, process, project and product (4P). 4+6=10

*Or*

- (b) What is system development life cycle? With a neat labeled diagram, explain PERT and Gantt charts. 4+6=10

**G7/194a**

*( Turn Over )*

( 2 )

2. (a) In a software development organization, identify the persons responsible for carrying out the quality assurance activities. Explain the principal tasks they perform to meet this responsibility. 4+6=10

Or

- (b) Suppose as the president of a company, you have the choice to either go for ISO 9000 based quality model or SEI CMM based model, which one would you prefer? Give the reasons for your choice. 4+6=10

3. (a) What is software effort estimation? Explain models for software product quality and tools to measure defect in software metrics. 3+4+3=10

Or

- (b) What do you mean by software metrics? Explain metrics for software maintenance and classification of software metrics. 4+6=10

4. (a) What do you understand by software configuration? What is meant by software configuration management? Why is software configuration management crucial to the success of large software product development projects? 2+2+6=10

( 3 )

Or

- (b) What do you mean by resource allocation? How will you identify the resources required for software project? Explain nature of resources in software project along with resource allocation table.  $2+2+6=10$

5. (a) Suppose you are the project manager of a large software development project. List three common types of risks that your project might suffer. Point out the main steps that you would follow to effectively manage risks in your project.  $4+6=10$

Or

- (b) What is management? Suppose as a manager in software development project, how will you manage people and organize your team to deliver software quality in a given time?  $2+8=10$

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**2016**

( 5th Semester )

**BACHELOR OF COMPUTER APPLICATION**

Paper No : BCA-504

**( Software Project Management )**

( PART : A—OBJECTIVE )

( Marks : 25 )

*The figures in the margin indicate full marks for the questions*

**SECTION—I**

( Marks : 15 )

1. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×10=10

(a) Which of the following risks is the failure of a purchased component to perform as expected?

(i) Product risk ( )

(ii) Project risk ( )

(iii) Business risk ( )

(iv) Programming risk ( )

(b) Function point is a measure of

- (i) effort ( )
- (ii) complexity ( )
- (iii) usability ( )
- (iv) size ( )

(c) Which of the following is not a product metrics?

- (i) Size ( )
- (ii) Reliability ( )
- (iii) Productivity ( )
- (iv) Functionality ( )

(d) SDLC stands for

- (i) Software Design Life Cycle ( )
- (ii) Software Development Life Cycle ( )
- (iii) System Design Life Cycle ( )
- (iv) System Development Life Cycle ( )

(e) Which process does quality assurance provide and umbrella for?

- (i) Continuous process improvement ( )
- (ii) Quality assurance ( )
- (iii) Project management plan ( )
- (iv) Quality improvement plan ( )

(f) Which of the following is not a maturity level in CMM?

- (i) Design ( )
- (ii) Repeatable ( )
- (iii) Managed ( )
- (iv) Optimizing ( )

(g) Which of the following is a complementary approach to function-oriented approach?

- (i) Object-oriented analysis ( )
- (ii) Object-oriented design ( )
- (iii) Structure approach ( )
- (iv) Both (i) and (ii) ( )

- (h) During software development, which factor is most crucial?
- (i) People ( )
  - (ii) Process ( )
  - (iii) Product ( )
  - (iv) Project ( )
- (i) Which of the following is not project management goal?
- (i) Keeping overall costs within budget ( )
  - (ii) Delivering the software to the customer at the agreed time ( )
  - (iii) Maintaining a happy and well-functioning development team ( )
  - (iv) Avoiding customer complaints ( )
- (j) Which of the following is incorrect activity for the configuration management of a software system?
- (i) Internship management ( )
  - (ii) Change management ( )
  - (iii) Version management ( )
  - (iv) System management ( )

( 5 )

2. State whether the following statements are *True (T)*  
or *False (F)* in the brackets provided : 1×5=5

(a) CMMI is the successor of CMM.

( T / F )

(b) Quality planning is the process of developing a  
quality plan for customer.

( T / F )

(c) Risk management includes risk identification,  
analysis and abatement planning.

( T / F )

(d) Risk exposure = ( Potential damage ) ×  
( Probability of risk )

( T / F )

(e) Project managers have to assess the risk that  
may affect a project.

( T / F )



( 6 )

SECTION—II

( Marks : 10 )

3. Answer the following questions : 2×5=10

(a) What is formal technical review (FTR)?

( 7 )

(b) Explain project schedule.

( 8 )

(c) Explain cocomo model.

(d) What are the objectives of project planning?

( 9 )

(e) What is project management methodology?

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