

**V/BCA/504 (R)**

**Student's Copy**

**Professional Course Examination, November 2018**

**( 5th Semester )**

**BACHELOR OF COMPUTER APPLICATIONS**

**Course : BCA 504**

**( Software Project Management )**

**( Revised )**

**Full Marks : 75**

**Time : 3 hours**

**( PART : A—OBJECTIVE )**

**( Marks : 25 )**

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

**SECTION—A**

**( Marks : 15 )**

Tick (✓) the correct answer in the brackets provided :

1×10=10

**1. In which step of SDLC project termination could be done?**

- (a) Design phase ( )
- (b) System maintenance phase ( )
- (c) Feasibility study phase ( )
- (d) Coding phase ( )

**2. Why there is need for software management?**

- (a) Software development is complex and expensive ( )
- (b) It is done with few people with fixed skills and abilities ( )
- (c) It is not time consuming ( )
- (d) It is good for experience ( )

3. Which of the following is not a maturity level in CMM?
  - (a) Design ( )
  - (b) Repeatable ( )
  - (c) Managed ( )
  - (d) Optimizing ( )
4. Quality management in software engineering is also known as
  - (a) SQA ( )
  - (b) SQM ( )
  - (c) SQI ( )
  - (d) SQA and SQM ( )
5. Quality also can be looked at in terms of user satisfaction which includes
  - (a) a compliant product ( )
  - (b) good quality output ( )
  - (c) delivery within budget and schedule ( )
  - (d) All of the above ( )
6. What kind of quality cost is incurred when an error is detected in a product prior to shipment?
  - (a) Prevention ( )
  - (b) Internal failure ( )
  - (c) External failure ( )
  - (d) Appraisal ( )
7. Which is a software configuration management concept that helps us to control change without seriously impeding justifiable change?
  - (a) Baselines ( )
  - (b) Source code ( )
  - (c) Data model ( )
  - (d) None of the above ( )
8. Which of the following does not affect the software quality and organizational performance?
  - (a) Market ( )
  - (b) Product ( )
  - (c) Technology ( )
  - (d) People ( )
9. Why is software difficult to build?
  - (a) Controlled changes ( )
  - (b) Lack of reusability ( )
  - (c) Lack of monitoring ( )
  - (d) All of the above ( )
10. Which of the following is not one of the three conventional roles of managing teams?
  - (a) Leader ( )
  - (b) Stakeholder ( )
  - (c) Member ( )
  - (d) Contributor ( )



Indicate whether the following statements are *True (T)* or *False (F)* by putting a Tick (✓) mark : 1×5=5

1. An independent relationship must exist between the attribute that can be measured and the external quality attribute. ( T / F )
2. Component-based software engineering allows faster delivery. ( T / F )
3. Requirements management has a high initial start-up cost but does not need ongoing funding throughout a project. ( T / F )
4. The COCOMO model takes into account different approaches to software development, reuse, etc. ( T / F )
5. The individual or organization who wants a product to be developed is known as the initiator. ( T / F )

**SECTION—B**

( Marks : 10 )

Answer the following :

2×5=10

1. What is Gantt chart?
2. Give the basic COCOMO effort formula.
3. What is defect metrics?
4. What is project management methodology?
5. What is software quality assurance?



**( PART : B—DESCRIPTIVE )**

( Marks : 50 )

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

1. (a) Identify the main difference between managing the development of a conventional project and an outsource project. 10

**OR**

- (b) What is software planning? What are 7 phases of system development life cycle? 4+6=10

2. (a) What are the tools used in project management? Explain the standards and methods of project management. 4+6=10

**OR**

- (b) Explain PERT (Program Evaluation Review Technique) and write the advantage of PERT. 4+6=10

3. (a) What is software effort estimation technique? Explain the cased-based reasoning. 3+7=10

**OR**

- (b) What is quality software? Differentiate between product quality and process quality. 3+7=10

4. (a) Define contract management. What are the different types of contract? 3+7=10

**OR**

- (b) Compare and contrast between ISO 9001 and CMM model for software. 10

5. (a) What is management? Suppose as a manager in software development project, how you will manage people and organize your team to deliver software quality in a given time? 4+6=10

**OR**

- (b) Explain four types of short-fall in software project management. 10