

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 case-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