

**Professional Course Examination, May 2023**

( 6th Semester )

**BACHELOR OF COMPUTER APPLICATIONS**

**( Software Project Management )**

*Full Marks : 75*

*Time : 3 hours*

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

**( PART : A—OBJECTIVE )**

( Marks : 25 )

SECTION—I

( Marks : 15 )

**A.** Tick (✓) the correct answer in the brackets provided : 1×10=10

1. A 'software project management' includes \_\_\_\_\_ of a software project.

- (a) planning ( )
- (b) monitoring ( )
- (c) control ( )
- (d) All of the above ( )

2. The following characteristic distinguishes projects :
- (a) Non-routine tasks are involved ( )
  - (b) Planning is required ( )
  - (c) Work involves several specialisms ( )
  - (d) All of the above ( )
3. Which of the following is concerned with the software quality framework?
- (a) Identify project scope and objectives ( )
  - (b) Identify project infrastructure ( )
  - (c) Analyze project characteristics ( )
  - (d) All of the above ( )
4. Management of the project is related to which of the following?
- (a) Identify project team organization ( )
  - (b) Produce ideal activity network ( )
  - (c) Identify stakeholders ( )
  - (d) None of the above ( )
5. \_\_\_\_\_ is also called case-based reasoning.
- (a) Parametric model ( )
  - (b) Expert judgement ( )
  - (c) Estimating by analogy ( )
  - (d) None of the above ( )

6. A project is composed of a number of \_\_\_\_\_ activities.
- (a) interrelated ( )
  - (b) unrelated ( )
  - (c) Both (a) and (b) ( )
  - (d) All of the above ( )
7. Scheduling resources can create new
- (a) activity ( )
  - (b) critical paths ( )
  - (c) delay ( )
  - (d) None of the above ( )
8. In allocating individuals to tasks, the following factors need to be taken into account :
- (a) Availability ( )
  - (b) Criticality ( )
  - (c) Team building ( )
  - (d) All of the above ( )
9. Advantages of 'fixed price per unit delivered contracts' approach is
- (a) customer understanding ( )
  - (b) comparable pricing ( )
  - (c) supplier efficiency ( )
  - (d) All of the above ( )

10. Which of the following is an odd element of team building?

- (a) Forming ( )
- (b) Storming ( )
- (c) Performing ( )
- (d) Designing ( )

**B.** Tick (✓) whether the following statements are *True (T)* or *False (F)* : 1×5=5

1. Software development projects are always successful.

( T / F )

2. Risk is the chance of exposure to the adverse consequences of future events.

( T / F )

3. A successful project is one delivered on time, within budget and with the required quality.

( T / F )

4. The bargaining position of the customer will stronger if their business is going to be invaluable.

( T / F )

5. The 'traditional' management structure is based on the concept of the hierarchy—each member of staff has only one manager.

( T / F )

SECTION—II

( Marks : 10 )

C. Answer the following questions :

2×5=10

1. What is the concept of Gantt Chart?

**OR**

What do you understand by Software Project Management?

2. Differentiate size-oriented and function-oriented software metrics.

**OR**

What are the categories of risk during software development?

3. What is top-down approach in software effort estimation?

**OR**

Write a note on life cycle of defect.

4. What is scheduling resources?

**OR**

What are the types of managing contracts?

5. Write a note on leadership.

**OR**

Write a note on product process quality management.

**( PART : B—DESCRIPTIVE )**

( Marks : 50 )

**D.** Answer the following questions : 10×5=50

1. (a) Define the project activity planning concept. Discuss the objective of activity planning. 2+8=10

**OR**

- (b) What is meant by System Development Life Cycle (SDLC)? Explain various steps involved in the SDLC environment. 2+8=10

2. (a) Define the term Cost Estimation. Briefly explain the COCOMO productive model. 2+8=10

**OR**

- (b) What is meant by Software Quality? Discuss the standard ISO 9126 including the major external software quality characteristics. 2+8=10

3. (a) Define the term estimation. Briefly describe where estimation is done and for what reason. 2+8=10

**OR**

- (b) What is meant by activity planning? Elaborate on the objectives of activity planning. 2+8=10

4. (a) Explain the term resources in software development. Briefly describe the various categories of resources in software development. 2+8=10

**OR**

- (b) Define the term data. Elaborate on the process of collecting data concerning software development monitoring and control. 2+8=10

5. (a) What is meant by the behavior of a person? Discuss how you can select the right person for the job. 2+8=10

**OR**

- (b) Explain the term motivation. Briefly describe the motivational model proposed by the Taylorist and Maslow's hierarchy. 2+4+4=10

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