NG2-121

December-2015

4th Year M.Sc., (CA & IT)

Software Project Management and Testing

Time : 3 Hours]   **[Max. Marks : 100**

1. (a) Do as Directed :   **10**

  (1) Define : Software Testing.

  (2) Define : Error.

  (3) Define : Bug.

  (4) Define : Test Plan.

  (5) State difference between Verification and Validation.

  (6) State difference between Black-box testing and White-box testing.

  (7) What do you mean Regression Testing ?

  (8) List the types of system testing.

  (9) List the types of Basis Path Testing for white-box testing.

  (10) Define : Debugging.

  (b) Answer the following questions :   **10**

  (1) Which dimensions of quality are considered for testing webapps ? Explain in detail.

  (2) Explain Testing Life Cycle.

2. (a) Do as Directed :   **10**

  (1) Define : KPA.

  (2) Mention possible reasons for project failure.

  (3) Define : Software Process Capability.

  (4) _____ model is used for making a proposal only if the requirements have a sufficient amount of detail and are precisely stated.

(5)   Which two major activities are included relating to requirements ?

(6)   What is the main objective of the requirement analysis ?

(7)   Explain goals for KPA "Training Program" at level 3.

(8)   List the goals at level 4 of CMM model.

(9)   Full form : CMM.

(10) Good requirements are note essential for successfully executing projects. (State true/false)

(b) Answer the following questions :   **10**

(1)   Explain requirement change management.

(2)   List down all the parts that are included in proposal and explain any two of them.

3.   (a) Do as directed :   **10**

(1)   _____ is the process of adjusting the standard process of the organization to obtain a process that is suitable for the particular business or technical needs of a project.

(2)   Which two mechanism are used for encapsulating past experience for us in project planning and management ?

(3)   _____ along with cost and schedule is a major factor in determining the success of a project.

(4)   _____ is the phase of the life cycle when a logical view of the computer implementation of the solution to the customer requirements is developed.

(5)   Who are the participants in the detailed design phase ?

(6)   Define : Summary Level Tailoring.

(7)   A _____ is a sequence of steps that a project can follow for performing some task along with guidelines for undertaking steps.

(8)   _____ is a permanent repository of process performance data from projects, which can be used for project planning, estimation, analysis and other purposes.

(9)   Define : Scheduling.

(10) Which activities are included for defect removal ?

(b) Answer the following questions : **10**

    (1) Explain the steps that is done for bottom-up estimation approach.

    (2) Explain Development Process in detail.

4. (a) Do as directed : **10**

    (1) Which two different phases are involved in system testing ?

    (2) What is the output of the test planning phase ?

    (3) Define : Risk Management.

    (4) Which are the two key components of risk management ?

    (5) Which three personnel uses the project management plan ?

    (6) The _____ document must provide the necessary information to all the sets of people in the company.

    (7) _____ is systematic and independent examination of various activities, intended to determine compliance with the quality system of an organization.

    (8) State the types of auditing.

    (9) List the documents and artifacts that are archived during project closure activity.

    (10) Define : Project Assets.

(b) Answer the following questions : **10**

    (1) Explain Project Management Plan

    (2) Which basic techniques are employed for project tracking ? Explain in detail.

5. (a) Do as directed : **10**

    (1) What is Microsoft Project ?

    (2) Define : Ganttchart.

    (3) What do you mean by network diagram in Microsoft project tool ?

    (4) If one is selecting date as, "6/12/2015" day "Sunday". Then what message did I receive from Microsoft Project Professional Tool ?

(5) What do you mean over-allocated resources ?

(6) Define : Duration.

(7) What is the difference between Actual Date and Expected Date ? Explain with short example.

(8) Define : Resources.

(9) Duration = _____ / Resource Unit

(10) Define : UML.

(b) Answer the following questions :   **10**

(1) Explain the role of visual source safe.

(2) List down and explain the features of Visual Source Safe.

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