UKA TARSADIA UNIVERSITY

Integrated M.Sc. (IT) (Semester 6)
060010607(2017-18)
DSE13 Software Project Management

Date :03/12/2021   **Time :**1:30PM- 4:30PM
                                                              Max. Marks:60

Instructions :
  1. Attempt all questions.
  2. Write each section in a separate answer book.
  3. Make suitable assumptions wherever necessary.
  4. Draw diagrams/figures whenever necessary.
  5. Figures to the right indicate full marks allocated to that question.
  6. Follow usual meaning of notations/abbreviations.

SECTION - 1

Q 1 A) Answer the following.   [4]

   I) What is process with respect to software project management?

   II) Identify the level of the company: "I am following all the standard processes".

   III) Which activities are arranged for quality control during development process?

   IV) State the activities which come under risk assessment.

Q 1 B) Answer the following in brief. (Any 3)   [6]

   I) State the role of process, people and technology in Q&P triangle.

   II) What do you mean by quality? List two aspect of quantitative quality management.

   III) Relate risk management with project execution.

   IV) Which are the possible risks when you set up your stall at IT expo?

Q 2 Answer the following.   [10]

  A) Tata Consultancy Services is providing all the JAVA and ANDROID related services to the IT market.
      Mr. John Conjure has given "Home Automation System" project to TCS. System should be developed in
      visual studio 2015. Project is supposed to be start with 1st April 2017 and it should be complete within 3
      months of start date. Except Sunday there is no extra holiday and total working hours of the company is
      8 hours. Calculate the total estimated hours for project. Also calculate task effort for below mentioned
      other phases. While designing designer came to know that 3 requirements are wrongly designed and
      they made wrong design for 3 properly understood requirements. At the time of coding code team found
      due to wrong design they did wrong coding.
      Consider given scenario and perform below given operation for process database.
      1.   Calculate Total estimated hour for project completion.
      2.   Calculate estimated hours for other phases(Requirement analysis, design, coding, unit testing,
      integration testing)
      3.   Prepare general characteristics and defect data table.
      4.   Also prepare effort data table.
      Note: coding takes 40% of total effort, requirement analysis takes 30% of total effort and other phases
      takes 10% of total effort.

OR

  A) Write the process of bottom up estimation model.

  B) "Kavya" restaurant wants an application to manage their inventory. Kavya restaurant has applied for
      request for information to Stars Solutions, Info word solutions and Webstar Solutions. In reply of RFI,
      Info word Solutions has provided their proposal. Give the technical and commercial part of proposal
      prepared by Info word Solutions.

OR

  B) Rohan is working as a module leader in Pixeta. He has task to explain "Importance of process database
      and its significance with respect to software project management" to his juniors. So, help him by
      providing required information with respect to his task.

Q 3 Answer the following in detail. (Any 2)   **[10]**

I) What is the role of tailoring guidelines in tailoring process? Summarize all the tailoring guidelines with their explanation.

II) State the purpose of collecting metrics data in software metrics. Relate software metrics with statistical process control.

III) Discuss the process of quantitative quality management and planning.

SECTION - 2

Q 4 A) Answer the following.   **[4]**

I) Configuration management is also known as _____.

II) Give one purpose of project monitoring.

III) Which information's are included in project summary of project management plan?

IV) Effort is fundamental parameter of a software project because it determines the cost of the project. True or False

Q 4 B) Answer the following in brief. (Any 3)   **[6]**

I) Enlist three types of project management plan.

II) Which are the general rules for controlling changes to document?

III) Draw the life cycle of a program.

IV) Which activities are involved in project tracking?

Q 5 Answer the following.   **[10]**

A) How do you plan and set up configuration management?

OR

A) Give brief idea about all the phases which occurs during the execution of project life cycle.

B) Discuss review capability baseline with its analysis and control guidelines.

OR

B) Describe the process of generating code review checklist.

Q 6 Answer the following in detail. (Any 2)   **[10]**

I) Write a detailed note on post-project analysis and archiving process.

II) Explain the process of project tracking.

III) Elaborate NAH syndrome with example.