1T00161 - M.C.A. (SEM-I) (Choice Based) (Two Year Course) (R 2020-21) / 70624 - Software Project Management   QP CODE : 10022015   DATE: 22/07/2023

(3 Hours)   **Total Marks: 80**

Note: 1) Question No.1 is compulsory.
2) Attempt any THREE from the remaining questions.
3) Figures to the right indicate full marks.

1. (a) Discuss Stakeholder Management.   **5**
   (b) What are the various methods of project implementation? Explain.   **5**
   (c) Explain FTR.   **5**
   (d) Assume a database system for an office automation project is to be developed. Project complexity is organic. The system mainly consists of following 4 modules: Data entry 0.6 KLOC, Data update 0.6 KLOC, Query 0.8 KLOC, Report generator 1.0 KLOC, System size 3.0 KLOC. Cost drivers are complexity: high (1.15), storage: high (1.06), experience: low (1.07), programming capability: low (1.17). Calculate the efforts, development time staff size and productivity.(Assume the constants a1= 2.4, b1=1.05, c1=2.5 and d1=0.38).   **5**

2. (a) Discuss Project Framework in detail.   **10**
   (b) Discuss the various tools used for Quality control.   **10**

3. (a) What is Requirement Elicitation? Explain various methods used in it.   **10**
   (b) Discuss various leadership styles.   **10**

4. (a) Discuss Spiral Model with its advantages and disadvantages.   **10**
   (b)The following table indicates the task for completing a software project activities and estimated duration for each task. Find CPM, Early Start, Early Finish, Last start, Late Finish and Slag time. Also, draw Network diagram for the same.   **10**

Task	Description	Duration	Predecessor
T1	Requirement Specification	1	-
T2	Design	2	T1
T3	Code generate interface	2	T2
T4	Code sequence interface	5	T2
T5	Code user interface path	3	T2
T6	Code control process path	1	T2
T7	Integrated and tests	6	T3, T4, T5, T6
T8	User manual	3	T7

5. (a) Discuss the process used for developing the Business case.   **10**
   (b) Explain any two UML diagrams.   **10**

6. (a) Discuss the various steps involved in Risk Management.   **10**
   (b) What is SRS? Why it is important to develop SRS.   **10**

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