



SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING

Continuous Assessment Test – I

Programme Name & Branch: B.Tech - IT

Exam Duration: 90 mins

Slot: C1+TC1

Maximum Marks: 50

Course Title: Software Engineering - Principles and Practices

Course Code: ITE1005

Faculty Name: Prof. Kalaivani S/ Prof.Sweta Bhattacharya/ Prof.Santhosh Kumar SVN

S.No.

Answer all Questions (5 *10 = 50 Marks)

1. If the uncertainty of the requirements is very high and schedule is extremely tight, what process model will you adopt? Explain the stages of the model highlighting the advantages and disadvantages. (2+4+4)
2. **Scenario 1:**
In the employee referral process, the HR head of the region where a vacancy exists informs employees of that region and other regional HR heads. The other regional HR heads inform employees by putting up a notice informing them about the vacancy. The employees send on their recommendations to the regional HR head of the region where a vacancy exists. The regional HR head then matches the skills of these candidates with the skills required for the vacant position and short lists them. An interview schedule is drawn up and the short listed candidates are informed. Based on the interview proceedings, interview details are updated and all the selected candidates are given offer letter. The candidate informs the HR (head where the vacancy exists) either by accepting or declining the offer letter. When a candidate referred by an employee joins the organization, the employee who has referred the candidate is paid a bonus. For the given Scenario 1, analyse the functional and non-functional requirements by describing in detail. (5+5)
3. For the Scenario 1, draw the use case diagram with appropriate notations. (10)
4. a. Draw the DFD Level 0 – for the Scenario 1. (5)
b. Identify the various project management activities that are carried out in the software development process. (5)
5. For the given Scenario 1, identify the various view points and validate the requirements using traceability matrix (Requirement traceability). (5+5)

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