

* ASSIGNMENT - 1 *

- Q1. Discuss Umbrella activities and its role in SDLC.
- SE Process framework activities are complemented by no. of umbrella activities.
 - Umbrella activities help SW team manage & control progress, quality, change & risk.
 - It includes :-
 - SW Project tracking & control :
 - allows SW team to access progress & take any necessary action to maintain schedule.
 - Risk Management :
 - access risk that may effect project or product
 - SW quality assurance : ensure
 - defines & conduct act required to SW quality
 - Technical reviews :
 - effort to uncover & remove error before next activity.
 - SW configuration management :
 - manages effects of change throughout the SW process.
 - Work Product Preparation & Production :
 - encompasses activities req to create work prod. such as models, docs., logs, forms, lists

Q2. What is important of process model in development of SW system?

- The SW development team must decide process model that is to be used for software product develop & then the entire team must adhere to it.
- This is necessary because SW product development can then be done systematically.
- Each team member will understand what is next activity & how to do it. Thus process model will bring definiteness & discipline in overall development process.
- Every process model consists of product through various phase is definite.
- Hence, transition of product through various phase is definite.
- Without following SW development act, this will ultimately cause a chaos & SW project will definitely fail.

Q3. Discuss Agile Modeling

- AM is a practice-based methodology for effective modeling & doc of SW based system.
- AM is simply, a collection of values, principles and practices for modeling SW that can

be applied on a S/w development projⁿ in an effective and light-weight manner.

- Although AM suggests a wide array of "core" and "supplementary" modeling principles, those that make AM unique are:
- Use multiple models:- there are many different models & notations that can be used to describe S/w.
- Travel light:- As S/w engineering work proceeds, keep only those models that will provide long-term value & jettison rest.
- Content is more important than representation.
- Know model & tools you use to create: understand strengths & weaknesses of each model & tools that are used to create it.
- Adapt & locally:- The modelling approach should be adapted to needs of agile team.

Q4. write short note on Risk Management.

- A risk is a potential problem. it might happen & it might not.
- Conceptual defⁿ of risk.
 - Risk concerns future happenings
 - Risk involves change in mind, opinion, actions, places, etc.
 - Risk involves choices & uncertainty that

choice entails.

→ Two characteristics of risk:

- Uncertainty: Risk may or may not happen, that is, there are no 100% risks.
- Loss: Risk becomes a reality & unwanted consequences or losses occur.

→ Category of risks:-

- Project risks
 - threaten project plan
- Technical risks
 - threaten quality & timeliness of SW to be produced
- Business risks
 - threaten feasibility of SW
- Known risk
- Predictable risk
- Unpredictable risk

→ Sub-category of risk:-

- Market risk
- Strategic risk
- Sales risk
- Management risks
- Budget risk