Assignment On SDLC Model   Assignment 1.

Q.1 Discuss the prototyping model. What is the effect of designing a prototype on the overall cost of the project?

Ans: prototyping model —!
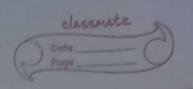
prototyping model is a system development method in which prototype is buil, tested and then rework on it until an acceptable outcome achieved from which the complete system or product can be developed.

This model work best in scenarios. where not all of the project requirenments are known in detail ahed of time.

It is an iterative, trial & error process that take place between the developers and the users.

Prototyping may have some initial costs of developing, but it reduces the overall budget by helping your product to be free of the errors that could have occurs if the idea was made from scratch without any prior user testing.

Furthermore, prototyping also helps to understand the shortcommings & drawbacks that can be emproved during the product development process.

If the prototyping process ignore completely, it might result in the restructuring and redesigning of the entire product after spending all your resources on its developm-ent, so the effect of desiqing a prototype on the overall cost of a software project is to actually reduce the additional costs of restructuring and reframing it after its full-fledged development. which might cost a fortune.

Q 2 Compare iterative enhancement model & evolutionary process model.

Ans: -

Iterative enhancement model	evolutionary process model.
1) This model has the similar phases as the waterfall model but with fewer restrictions.	This model bear a resemblance to Iterative enhancement model. similar phases as the waterfall model occur here in cycle fashion.
Utilised product is released at the end of each cycle with each release providing additional functionality.	This model does not require a useable product at the end of each cycle. requirements are implemented by category rather than by priority.
This model is an approch to building software in which overall lifecycle is compose of several iterations in sequence.	This model is designed to be allow to evolve in response to the costomers feedback.

Q.3 As we move outward along with process flow path of the spiral model, what can we say about software that is being developed or maintained.

Ans:-

As we move outward on the spiral product moves towards a more complete state and the level of abstraction at which work is performed is reduced. that is implementation specific work accelerates as we move further from the origin.

Q.4 Explain the scrum Agile methodology.
Ans: ⇒
- Agile scrum methodology is a sprint-based project management system with the goal of delivering the highest value of stakeholders.
- It is used by companies of all sizes for its ability to provide high end collaboration and efficiency for project based work
- In which each iteration consist of two to four week sprints, where the goal of each spints is to build the most emp features first & come out with a potentially deliverable product.

principles of Agile methodology
1) Customer satisfaction
2) Early & continuous delevery
3) Embrace change
4) Frequent delivery
5) Collaboration of businesses and developers
6) Motivated individuals
7) Simplicity.
8) Self organized team
9) Regulation, reflection & adjustment.

Roles in scrum Agile methodology
1) Scrum master -
Scrum master is the facilitator of scrum development process. In addition daily meetings with scrum team.
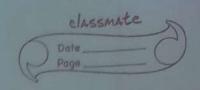responsibilities of Scrum master - coaching & motivating the team, removing impediments to spints, & ensuring that the team has best possible conditions to meet its goals and produce deliverable products

product owner -

It represents stakeholders, who are typically
customers. product owner determines product
expectations, records. changes to the product and
administers a scrum backlog .

Scrum team -

It is self organised group of three to nine people
who have the business, design, analytical and
development skills to carry out actual work, solve
problems and produce deliverable products.

Q.5 Explain the utility of kanban CFD reports.

Ans: -

- The Cumulative flow diagram is one of the most advanced kanban and Agile analytics charts.
- It provides a concise visualization of the three most important metrics of your flow: cycle time, throughput.
- kanban teams can use to measure flow and analyze trends about team's performance.