## Module - 1

## SE - Overview of IT Industry

(1) What is software! What is software engineering?

Software: Software is a set of instructions, data on programs used to operate computers and execute specific tasks.

Software Engineering: Software engineering is the branch of computer science that deals with the design, development, testing, and maintenance of software applications.

-> Software Engineering is the process of designing, developing, testing and maintaing software.

Ans: Types of software:

CI) Application Software

(2) System Software

(3) Duiven Software

(4) Middleware Software

(5) Purguamming Software

(1) Application Software: Application software, also known as apps ane programs that penform specific tasks our functions to help useus accomplish a particular goal on set of 900/5. They are designed to inewact with the usen and provide a specific service on functionally. Ex: Microsoft office ( Woord, Powepoint), 41 Web browser (Google Chrome), Paint etc. System Software: System software, also known as operation system software, manages and controls a computer's handware components and provides a platform for ourning application software. It acts as an intermediary between the computer handwave and the user controlling the allocation of system Ex: Notepad, Calculator, My Files, etc. \* Driver Software: (3) Allow computer handware devices to communicate with the openating system and other software. Acts as a turnslatou between the device and the os, enabling the device to function paropeuty. Ex: Audio duiven, Video duiven, etc. The Good Paper 41

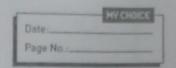
(u)	Middlewane Software:
+>	Acts as a bridge between different
	Enables complications systems on senvices
*>	Enables communication data exchange,
	THE TOTAL TOTAL CONTRACTOR OF THE PROPERTY OF
4)	Ese: Database middlewaxe, etc
(5)	Programming Software: Also known as development software our cooling tools.
*	Also known as development software on
	coding tools
*>	Used to cheeste write, test and debug software programs
	software programs
*>	Ese: Notepad ++, Esclipse, Visual Studio, etc
	- Alica Halinging
Q-3)	What is sole ? Explain each phase of
	SOLC.
Ans:	SDIC: A furame work that outlines the
	stages involved in planning, coreating.
	testing, and delivering software applications
*>	Phoises of SDLC diste:
	1) Planning
	2> Analysis
	3) Designing
	4) Implementation
	5> Testing
	6> Maintenance.
1.	Planning:
1)	Planning:  Delivery Daniert scope, goals, and deliveryables
*>	Define purject scope goals, and delivernables.  Determine budget and feasibility.  Create a wough estimate of the project.
*>	Charle a mough estimate of the projet.
4>	plan. The Good Paper

(2)	Analysis:
*	Bueate down high level meaning ments
	into smalley components.
*5	into smaller components.  Identify potential visks and oppositunities
3)	Designing:
45	Cureate a described design of the system
	COM COM COM COM
*>	Develop a useur interferce CUII and
	riser expirence cux) design.
4)	Implementation:
*>	Muite clean, efficient, and well-
	DULUIDEN TEAL COOLS
4)	Develop the software application accounding to the design specifications
100	accounding to the design specifications
5)	Testing:
*>	Plan and excute various types of
	testing.
*>	Indentify and deposit defects on issues
	tound during testing
0.	Maria I
6>	Maintenence:
*)	Posovide ongoing supposet and maintenence
*	to the softward application.
~,	Fix defects and issues viepovits by
	useds.
	late have along any a large to the same
	All the same of th

2001	What is one
QC4)	What is DFD? Coreate a DFD diagram
Ans:	DED: Also known as Duta Flow Diagram Data flow diagrams are used to graphically represent the flow of data in a buisness information system.
	Діаднат
	Stant)
	0
	Online
Cu	stormen Send Pruduct Send Pruduct forms Ouder forms Suppliers
	Process
	Ouden Product
	Configuration information
	Payment Information
	O I
	Payment Reward Grateways Payment
	Chateweys Payment
	Done
	Payment

Q-5) What is Flow chaut? Coreate a flowchaus to make addition of two numbers. Ans: Flowchauts aue nothing but the graphical representation of the data anderstanding of the code visually. Flowchant Steint

√The Good Paper



_	
Q-6)	What is Use case Diagnam? Coverte a use-case on bill payment on payton. A Use Case Diagnam is a vital tool
-	use-case on bill payment on payton.
Ans:	A Use Case Diagnam is a vitai tool
	in system design, it provides a
	in system design, it provides a visual suppresentation of how useus interact with a system.
	a system.
	Use case Diagnam
	Bill Payment
	Bill Payment on Payment
	login
-	Found Durch
	Fougot Pwd
Ad	nin Manage Recharge Customer
	(Feedback)
	Manage Service
	1 ogout Bonk
	A1 A1 · C1 . D1.
	Actour : Admin, Customen, Bonk
	Use case = Log in forgot PWd manage pay
	amount, manage siechausge, feedback,
	Use case = Log in, fougot PWd, manage pay amount, manage recharge, feedback, manage service, Logout.