

Subject Name - PPS

Name - Shreerang Mhatre.

Rollno - 111056

Div - 11

Batch - K3


Theory Assignment - 1

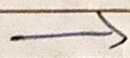
Q1) Define Flowchart and explain different symbols used in flowchart?

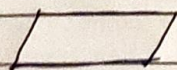
Ans) 1) Flowchart -

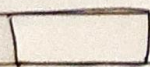
A Flowchart is simply a graphical representation of steps. It shows steps in sequential order and is widely used in presenting the flow of algorithms, workflow or process.


2) Symbols used in Flowchart -

Symbol	Function
	→ start/end

	→ Arrows that connects between symbols and the sequence.
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	→ Input/output
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	→ Process/calculation
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	→ Decision.
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Q2) Explain software development lifecycle?

Ans → Software Development Life cycle (SDLC) is a process used by the software industry to design, develop and test high quality softwares. The SDLC aims to produce a high-quality software that meets or exceeds customer expectations, reaches completion within time and cost estimates.

Q3) List out types of processor and explain any two?

Ans → The different types of processor are

- Microprocessor
- Micro controller
- Embedded processor
- Digital signal processor.

① Microprocessor -

The fundamental process of the system is denoted by a microprocessor incorporated in the embedded systems. There are various types of microprocessors in the market implemented by different enterprises. The microprocessor is a standard processor which comprises of ALU, control unit and club of registers known as control registers, status registers & scratchpad registers.

② Microcontroller

The microcontroller is standard which is available in different size and packages. The input reading and reaching to its corresponding output is the fundamental function of the basic microcontroller and so it is called as general purpose input and output process (GPIO).

Q4) Convert given decimal number to binary
- 1028?

Ans	1028	2	514	0
	514	2	257	0
	257	2	128	1
	128	2	64	0
	64	2	32	0
	32	2	16	0
	16	2	8	0
	8	2	4	0
	4	2	2	0
	2	2	1	0
	1	2	0	1

$$\therefore (1028)_{10} = (100000000100)_2$$

Binary