MID TERM

Q1: What is software program?

Ans: A software program is commonly defined as a set of instructions, or a set of modules or procedures, that allow for a certain type of computer operation. The term is also often used interchangeably with terms like "software application" and software product.

Q2: Differentiate between Complied and Interpreted language?

Ans: A compiled language is a programming language whose implementations are typically compilers and not interpreters. An interpreted language is a programming language whose implementations execute instructions directly and freely, without previously compiling a program into machine-language instructions.

Q3: Differentiate between Psudocode and algorithm?

Ans: The main difference between algorithm and pseudocode is that an algorithm is a step by step procedure to solve a given problem while a pseudocode is a method of writing an algorithm. An algorithm is a procedure for solving a problem. In other words, it is a sequence of steps to solve a given problem.

Q4: What the mathematical operator used in a programming language?

Ans: 5 Types of Math Used in Computer Programming

- 1.Binary Mathematics. Binary mathematics is among the most essential math fields for computer programming and lies at the heart of the programming field.
- 2. College Algebra.

- 3. Statistics.
- 4. Calculus.
- 5. Discrete Mathematics.

Q5: Mention any 5 relational operator?

Ans: Java has six relational operators that compare two numbers and return a boolean value. The relational operators are <, >, <=, >=, ==, and !=. True if x is less than y, otherwise false

Q6: What are the loops?

Ans: In computer programming, a loop is a sequence of instruction s that is continually repeated until a certain condition is reached. A loop is a fundamental programming idea that is commonly used in writing programs. An infinite loop is one that lacks a functioning exit routine.

Q7: Write the syntax of while loop in Javascript?

Ans: JavaScript while Loop

- 1. while (expression) { // statement } ...
- 2. let count = 1; while (count < 10) { console.log(count); count +=2; }</pre>

Q8: Write the syntax of for loop in Javascript?

Ans: JavaScript while Loop

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- 2. let count = 1; while (count < 10) { console.log(count); count +=2; }</pre>

Q9: What is the software development life cycle?

Ans: Software Development Life Cycle (SDLC) is a process used by the software industry to design, develop and test high quality softwares. It is also called as Software Development Process. SDLC is a framework defining tasks performed at each step in the software development process.

Q10: Explain the waterfall software development life cycle model?

Ans: The waterfall model is a classical model used in system development life cycle to create a system with a linear and sequential approach. It is termed as waterfall because the model develops systematically from one phase to another in a downward fashion.

Q11: Explain the v-shaped software development life cycle model?

Ans: The V-model is an SDLC model where execution of processes happens in a sequential manner in a V-shape. It is also known as Verification and Validation model. The V-Model is an extension of the waterfall model and is based on the association of a testing phase for each corresponding development stage.

Q12: Explain the Agile software development life cycle model?

Ans: The Agile software development life cycle is the structured series of stages that a product goes through as it moves from beginning to end. It contains six phases: concept, inception, iteration, release, maintenance, and retirement.