**FNOP**

**Mid Term Exam**

Q1: What is software program?

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?

A compiled language is a programming language that is often implemented by compilers rather than interpreters. An interpreted language is a computer language whose implementations execute instructions without first compiling them into machine-language instructions.

Q3: Differentiate between Psudocode and algorithm?

A pseudocode is one of the approaches that may be used to express an algorithm. An algorithm is defined as a well-defined series of steps that delivers a solution for a given problem. On the other hand, a programme allows us to write code in a certain programming language.

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

There are four main ways to manipulate numbers in computer programming: adding, subtracting, multiplying, and dividing. Use these symbols in your computer programme to conduct a mathematical operation using two integers (or two numbers represented by variables): adding (+), subtracting(-), multiplying(\*), and dividing( / )

Q5: Mention any 5 relational operator?

**<**  : less than

**<=**  : less than or equal to

**>**  : greater than

**>=**  : greater than or equal to

**==** : equal to

**/=**  : not equal to

Q6: What are the loops?

Definition: A loop is a programming element that repeats a section of code until the desired operation is complete. In programming, repetitive activities are prevalent, and loops are vital for saving time and reducing errors.

Q7: Write the syntax of while loop in Javascript?

while (i < 10) {  
  text += "The number is " + i;  
  i++;  
}

Q8: Write the syntax of for loop in Javascript?

for (let i = 0; i < cars.length; i++) {  
  text += cars[i] + "<br>";  
}

Q9: What is the software development life cycle?

A software development process is the division of software development activity into smaller, parallel or sequential steps or subprocesses in order to better design, product management, and project management in software engineering. A software development life cycle is another name for it.

Q10: Explain the waterfall software development life cycle model?

The waterfall model divides project activities into linear sequential stages, each of which is dependent on the previous phase's deliverables and corresponds to a task specialisation. This method is common in certain areas of engineering design.

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

The V-model is a type of software development process that can be thought of as an extension of the waterfall model. It is an example of the more generic V-model. After the coding phase, the process steps are twisted upwards to form the traditional V shape, rather than continuing down in a linear manner.

Q12: Explain the Agile software development life cycle model?

The Agile software development life cycle is a set of steps that a product goes through as it progresses from conception to completion. Concept, conception, iteration, release, maintenance, and retirement are the six phases.