

**In the name of Allah**

## **Introduction of python programming**

### **Answer of first season**

#### **Multiple choice questions**

**1:** a program must be converted to () language to be executed by a computer?

b. machine language

**2:** is logical programming language

a. prolog

**3:** The program written only using 0 and 1 is

d: Machine

**4:** The founder of Python is

b. Guido van Rossum

**5:** Python is a compiled language.

b. False

(Python is interpreted, not compiled by default)

**6:** This programming paradigm emerged to remove the reliance on the GOTO statements.

a. Structured

**7:** Which Python library is popularly referred to as the HTTP library written for humans?

b. Requests

**8:** In which phase of SDLC does the software developer analyses whether software can be prepared to fulfill all the requirements of the end user?

d. Planning

**9:** This license allows a patent grant for derivative works.

b. Apache License

**10:** A group of people maintain exclusive control over the source code of a software. Such software is called

c. Proprietary

## Review question

1. What is a programming language?

**Answer.** A programming language is a computer language engineered to communicate instructions to a machine.

2. Briefly explain the steps to install Anaconda.

**Answer.** First download the Anaconda for its side then open the file you download then click "I agree" choose the place of it and click the install option.

3. Describe the steps to install PyCharm.

**Answer.** First download the PyCharm then open the downloaded file and click next option and choose the location of installation and click the install option

4. Outline the advantages and disadvantages of machine language

**Answer.** The main advantage of machine language is that it can run and execute very fast as the code will be directly executed by a computer and the programs efficiently utilize memory

And the disadvantage of it is

Machine language is almost impossible for humans to use because it consists entirely of numbers

Machine language programs are hard to maintain and debug.

5. Why do we need programs? Comment on this.

**Answer.** We need program to make life easier than past

6. Outline the advantages of high-level language.

**Answer.** The advantage of it is Easier to modify, faster to write code and debug as it uses English like statements, Portable code, as it is designed to run on multiple machines.

7. Give a brief explanation of the history of Python

**Answer.** The history of the Python programming language dates back to the late 1980s. Python was conceived in the late 1980s and its implementation was started in December 1989 by Guido van Rossum at CWI in the Netherlands as a successor to the ABC programming language capable of exception handling and interfacing with the Amoeba operating system.

8. Differentiate between Interpreter and Compiler.

**Answer.** A compiler is a system software program that transforms high-level source code written by a software developer in a high-level programming language into a low-level machine language. The process of converting high-level programming language into machine language is known as compilation. Compilers translate source code all at once and the computer then executes the machine language that the compiler produced.

An interpreter is

a program that reads source code one statement at a time, translates the statement into machine language, executes the machine language statement, then continues with the next statement.

**9.** Mention disadvantages of Assembly language.

**Answer.** There are no symbolic names for memory locations

It is difficult to read

Assembly language is machine-dependent making it difficult for portability

**10.** Give a brief description of opensource software

**Answer.** Opensource software is software with source code that anyone can inspect, modify, and enhance.

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