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## IBPS SO INFORMATION TECHNOLOGY OFFICER QUIZ – 2

Directions: Study the following questions carefully and answers the questions given below:

### 1. Compaction is a solution to the problem of

- A. Deadlock
- B. Internal fragmentation
- C. Critical section
- D. External fragmentation
- E. Unauthorized access

### 2. The Last address of IP address represent is:

- A. Unicast Address
- B. Multicast Address
- C. Broadcast Address
- D. Network Address
- E. None of these

### 3. A software program stored in a ROM that cannot be changed easily is known as

- A. hardware
- B. linker
- C. editor
- D. firmware
- E. None of these

### 4. Communication between a computer and a keyboard involves \_\_\_\_\_ transmission.

- A. Automatic
- B. Half-duplex
- C. Full-duplex
- D. Simplex
- E. Transitive

### 5. Which of these measures are used to analyze the central tendency of data?

- A. Mean and Normal Distribution
- B. Mean, Median and Mode
- C. Mode, Alpha & Range
- D. Standard Deviation, Range and Mean
- E. Median, Range and Normal Distribution

### 6. In C++, a function contained within a class is called a –

- A. In built function
- B. User defined function
- C. Member function

D. All of these                      E. None of these

**7. The HTML elements with no content are called**

A. NULL element                      B. Break element                      C. Empty element

D. Zero element                      E. Invalid element

**8. The main directory of a disk is called the \_\_\_\_\_ directory.**

A. root                      B. sub                      C. folder

D. network                      E. None of these

**9. An assembler that runs on one machine but produces machine code for another machine is called**

A. Simulator                      B. Emulator                      C. Cross assembler

D. Boot – strap loader                      E. None of these

**10. Which of the following is not a characteristic of Time sharing OS?**

A. Interactive computer system

B. Many users can share the computer simultaneously

C. CPU executes multiple jobs by switching among them

D. Several jobs can be kept simultaneously in memory

E. CPU remains idle if the process uses I/O

**Correct answers:**

1	2	3	4	5	6	7	8	9	10
D	C	D	D	B	C	C	A	C	E

**Explanations:**

**1.**

Compaction is one of the solutions to the problem of external fragmentation. In this method, the memory contents are shuffled so as to place all the free memory together in one large block.

Hence, option D is correct.

**2.**

0.255 can be represented in 8 bits. So an IP address consists of four sections, and each section can have a value 0...255. This means that each section can be represented with 8 bits. With four of these sections, you have  $(4 \text{ sections}) \times (8 \text{ bits/section}) = 32 \text{ bits}$ . To represent the entire IP address.

Hence, option C is correct.

**3.**

Programs stored on ROM chips are known as firmware because it is notionally more like hardware than software. ROM is preloaded with data and software that never changes.

Hence, option D is correct.

**4.**

Communication between a computer and a keyboard involves simplex transmission because here data flows in single direction. Simplex transmission is a type of transmission mode. In this type of transmission mode data can be sent only through one direction i.e. communication is unidirectional. We cannot send a message back to the sender. Unidirectional communication is done in Simplex Systems.

Examples of simplex Mode is loudspeaker, television broadcasting, television and remote, keyboard and monitor etc.

Hence, option D is correct.

**5.**

The mean, median, mode are the three statistical measures which help us to analyze the central tendency of data. We use these measures to find the central value of the data to summarize the entire data set.

Hence, option B is correct.

**6.**

Classes can contain data and functions, these functions are called as member functions. Any nonstatic function declared inside a class declaration is considered a member function and is called using the member selection operator (. and →).

Hence, option C is correct.

**7.**

HTML elements with no content are called empty elements. Empty elements do not have an end tag, such as the <br> element.

Hence, option C is correct.

**8.**

In a computer file system, and primarily used in the Unix and Unix-like operating systems, the root directory is the first or top-most directory in a hierarchy. It can be likened to the trunk of a tree, as the starting point where all branches originate from.

Hence, option A is correct.

**9.**

Cross assembler is an assembly program that allows a computer program written on one type of computer to be used on another type.

Hence, option C is correct.

**10.**

In a time – sharing system, if the current process requires doing I/O work, the scheduler picks up another process for the CPU. As long as there are processes waiting to be executed, the CPU does not remain idle.

Hence, option E is correct.



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