

19/190-C**B.C.A. (First Semester) Examination, 2019****Paper : Fourth (104)****(Fundamental of Information Technology)***Time : Three Hours]**[Maximum Marks : 70*

Note : Attempt questions from **all** sections as per instructions.

Section - A

Note : All questions are **compulsory**. Each carry equal marks i.e. 1. $1 \times 15 = 15$

1. (i) Computer word size is a multiple of
- (a) 16 bits
 - (b) 4 bits
 - (c) 1024 bits
 - (d) 10 bits

(2)

- (ii) are specific to users' needs
- (a) System software
 - (b) Application software
 - (c) Assemblers
 - (d) Compilers
- (iii) Type of computer memory in which access time is not constant but varies depending on address location is known as
- (a) RAM
 - (b) RWM
 - (c) ROM
 - (d) SAM
- (iv) Which of the following controls the process of interaction between the user and the operating system?
- (a) User interface
 - (b) Language translator
 - (c) Platform
 - (d) Screen saver

(3)

- (v) The first computers were programmed using
- (a) assembly language
 - (b) machine language
 - (c) source code
 - (d) object code
- (vi) A computer cannot 'boot' if it does not have the
- (a) Compiler
 - (b) Loader
 - (c) Operating System
 - (d) Assembler
- (vii) Collecting personal information and effectively posing as another individual is known as the crime of:
- (a) Spooling
 - (b) Identity theft
 - (c) Spoofing
 - (d) Hacking
- (viii) A modem is connected to
- (a) a telephone line
 - (b) a keyboard
 - (c) a printer
 - (d) a monitor

(4)

- (ix) Which of the following is a network topology
- (a) LAN
 - (b) WAN
 - (c) MAN
 - (d) BUS
- (x) When you write an algorithm the order of the instructions is very important.
- (a) True
 - (b) False
- (xi) Give some Example of programming language
- (xii) What is the meaning of Fat?
- (xiii) What is 'System Software'? Give any two examples?
- (xiv) What is the difference between algorithm and pseudo code?
- (xv) What is the difference between Internet and Intranet?

(5)

Section - B

Note : Attempt any **five** questions. Each carry equal marks i.e. 7. $7 \times 5 = 35$

2. Define 'Computer'. Explain block diagram of computer with functions of each unit.

OR

Discuss advantages and disadvantages of different computer network topologies.

3. Define software. Explain various types of software with example. <https://www.vbspustudy.com>

OR

What is operating system? Explain all the components of operating system.

4. What is meant by a language translator? Explain different types of language translators.

OR

Describe different commands in MS-DOS operating system with their syntax.

(6)

5. What is machine language? Explain its advantages over assembly language. What are the characteristics of a good programming language? Explain in detail.

OR

Explain various type of Programming languages.

6. What is memory? Differentiate between primary and secondary memory.

OR

Explain Chache memory.

Section - C

Note : Attempt any **two** questions. Each carry equal marks i.e. 10. $10 \times 2 = 20$

7. What are the main generations of computer? Explain all generations with examples.
8. "Operating System is act as a resource manager", Define this statement.

(7)

9. What do you mean by Algorithm and flow-chart? Write the algorithm and flowchart to check whether the given year is leap or not.
10. Short notes on : Multitasking, Multiprogramming, Time sharing, Batch Processing.
11. Explain different type of computers.

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