

XB-140

003-003109

BCA Sem.-I (CBCS) Examination

December-2014

CS-03 : Computer Fundamental and Emerging Technology

(New)

Faculty Code : 003

Subject Code : 003109

Time : 2½ Hours]

[Total Marks : 70

1. Select the appropriate answer from the following : **20**
- (1) Which of the following devices can be used to directly image printed text ?
 - (a) OCR
 - (b) OMR
 - (c) MICR
 - (d) All of above
 - (2) The output quality of a printer is measured by
 - (a) Dot per inch
 - (b) Dot per sq. inch
 - (c) Dots printed per unit time
 - (d) All of above
 - (3) Who designed the first electronics computer - ENIAC ?
 - (a) Van-Neumann
 - (b) Joseph M. Jacquard
 - (c) J. Presper Eckert and John W Mauchly
 - (d) All of above
 - (4) A computer program that converts an entire program into machine language is called
 - (a) Interpreter
 - (b) Simulator
 - (c) Compiler
 - (d) Commander
 - (5) The ALU of a computer responds to the commands coming from
 - (a) Primary memory
 - (b) Control section
 - (c) External memory
 - (d) Cache memory
 - (6) What is the latest write-once optical storage media ?
 - (a) Digital paper
 - (b) Magneto-optical disk
 - (c) WORM disk
 - (d) CD-ROM disk

- (7) What is the number of read-write heads in the drive for a 9-trac magnetic tape ?
(a) 9 (b) 16
(c) 18 (d) 27
- (8) Floppy disks which are made from flexible plastic material are also called
(a) Hard disks (b) High-density disks
(c) Diskettes (d) Templates
- (9) Dot-matrix is a type of _____
(a) Tape (b) Printer
(c) Disk (d) Bus
- (10) The two kinds of main memory are
(a) Primary and secondary (b) Random and sequential
(c) ROM and RAM (d) All of above
- (11) One nibble = _____ bits,
(a) 4 (b) 6
(c) 8 (d) 10
- (12) GPS Stands for
(a) General positioning system (b) Global positioning system
(c) Global posting system (d) none
- (13) Pen drive is also called
(a) Portable Drive (b) Pocket Drive
(c) Flush Drive (d) All of the above
- (14) Which of the following is not a type of computer codes ?
(a) CL1 (b) ASCII
(c) BCD (d) EBCDIC
- (15) In CDMA, D stands for _____.
(a) Department (b) Division
(c) Device (d) Definition
- (16) Which of the following is not a printing speed ?
(a) CPS (b) DPS
(c) DPI (d) PPM
- (17) Which of the following is/are Operating System ?
(a) Batch OS (b) Multi Processing OS
(c) Online OS (d) All of the above

2

(18) From the following, which is the spread sheet package ?

- (a) MS-Access (b) MS-Word
(c) MS-Excel (d) MS- Power Point

(19) From the following, which is the database package ?

- (a) MS-Access (b) MS-Word
(c) MS-Excel (d) MS-PowerPoint

(20) A _____ is a program that is loaded onto your computer without your knowledge and runs against your wishes.

- (a) Virus (b) Database
(c) Operating System (d) None

2. (A) Answer the following question : (Any **three**)

6

- (1) What is computer ? Point out computer's characteristics.
- (2) Explain data processing cycle.
- (3) Write short note on 3rd generation of computer.
- (4) Write note on mainframe computer.
- (5) Write note on hybrid computer.
- (6) Explain super computer in brief.

(B) Attempt any **three** :

9

- (1) Differentiate : Analog V/S Digital computer.
- (2) Explain keyboard and mouse input device.
- (3) Write short note on OCR & OMR.
- (4) Write short note on Glide-pad and light pen.
- (5) Explain LCD and LED.
- (6) Explain in brief : OHP and Speaker.

(C) Answer the following Question : (Any **two**)

10

- (1) Differentiate : Impact V/S Non-Impact printer.
- (2) Explain plotters with its types.
- (3) What is processor ? Compare Dual Core and Core to Dual.
- (4) Differentiate : Volatile V/S Non-Volatile.
- (5) What are slots ? Explain types of slots in detail.



3. (A) Answer the following Question : (Any **three**)

6

- (1) Convert $(1234)_{10} = (?)_2$
- (2) Convert $(127)_8 = (?)_{16}$
- (3) Convert $(5AB1) = (?)_{10}$
- (4) Define terms : ATM and UPS.
- (5) Define terms : Backup and Restore.
- (6) Define terms : Buffer and Spooling.

(B) Attempt any **three** :

9

- (1) List out types of magnetic storage Devices and explain any one.
- (2) Define terms : Track, Sector, Cluster and Cylinder.
- (3) Differentiate : DVD V/S Blu-Ray Disk.
- (4) What is parity check ? Explain odd parity system.
- (5) Explain in brief : Assemble, compiler and interpreter.
- (6) Write note on GPS.

(C) Attempt any **two** :

10

- (1) Differentiate : CDMA V/S Gsm.
- (2) Differentiate : Time sharing OS V/S Real time OS.
- (3) Differentiate : Machine level language V/S High level Language.
- (4) What is virus ? Explain types of virus in detail.
- (5) Compare Bluetooth and Infrared.