



003-003103

B. C. A. (CBCS) (Sem. I) Examination

December - 2011

**CS-03 : Computer Fundamentals & Emerging
Tech.**

Faculty Code : 003

Subject Code : 003103

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instruction : Write answer of all questions in main answer sheet.

1 MCQs : 20

- (1) Transistor introduced in which generations of computer ?
 - (A) First
 - (B) Second
 - (C) Third
 - (D) Fourth

- (2) Which of the following is not the characteristic of computer ?
 - (A) Speed
 - (B) I.Q.
 - (C) Reliable
 - (D) Automatic

- (3) RAM is
 - (A) Volatile
 - (B) Automatic
 - (C) Non volatile
 - (D) None of these

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[Contd...

- (4) Which of the following is not correct number ?
- (A) ABC_{16}
 - (B) 65_{10}
 - (C) 78_8
 - (D) 1010_2
- (5) Which type of computer uses time sharing operating system ?
- (A) Mainframe
 - (B) Microcomputer
 - (C) Supercomputer
 - (D) Analog computer
- (6) Which of the following language used for fast program execution ?
- (A) Machine language
 - (B) Assembly language
 - (C) High level language
 - (D) None of these
- (7) Which of the following is the finest quality printer ?
- (A) Daisy wheel
 - (B) Laser
 - (C) Ink jet
 - (D) Dot matrix

- (8) Which of the following is not an input device ?
- (A) MICR
 - (B) OBR
 - (C) JCL
 - (D) OMR
- (9) Parity bit is used for which of the following ?
- (A) to detect errors
 - (B) to correct errors
 - (C) to delete error
 - (D) none of these
- (10) Floppy disk belongs to which storage medium ?
- (A) Primary storage
 - (B) Magnetic tape
 - (C) Magnetic disk
 - (D) Video disk
- (11) The full form of CRT is ?
- (A) Cathode Right Tube
 - (B) Cathode Ray Tube
 - (C) Canonical Ray Tube
 - (D) None of these

(12) B_{16} in Binary is ?

- (A) 1010
- (B) 1011
- (C) 1100
- (D) 1111

(13) The satellite is used in which of the following ?

- (A) Blue tooth
- (B) Wi-Fi
- (C) GIS
- (D) GPS

(14) Hammers are used in which of the following ?

- (A) Impact printers
- (B) Non impact printers
- (C) In impact and non impact both
- (D) none of all

(15) The full form of USB is which of the following ?

- (A) Unique sub bus
- (B) Unique serial bus
- (C) Universal serial bus
- (D) None of these

- (16) Fiber optics is mainly used in which of the following ?
- (A) Construction
 - (B) Communication
 - (C) Collaboration
 - (D) None of these
- (17) The full form of CDMA is which of the following ?
- (A) Cable Drive Multiple Area
 - (B) Cable Division Metro Area
 - (C) Code Data Machine Access
 - (D) Code Division Multiple Access
- (18) Blue tooth 1.0 standard is having the data transfer rate
- (A) 1 Mbps
 - (B) 2 Mbps
 - (C) 3 Mbps
 - (D) 4 Mbps
- (19) Parallel port is developed by
- (A) IBM
 - (B) Zenith
 - (C) HP
 - (D) Compaq
- (20) The full form of Wi-Fi is
- (A) Wireless Fidelity
 - (B) Wired Fiber
 - (C) Wired Fidelity
 - (D) Wireless Fiber

- 2 (a) Attempt any three : 6
- (1) $10011_2 + 11111_2 = ?_2$
 - (2) Subtract 11011_2 from 1111_2 using any complementary method.
 - (3) Explain any four characteristics of computer.
 - (4) $ABC_{16} = ?_8$
 - (5) Write short note on hybrid computer.
 - (6) Explain nibble, bit, parity bit and byte.
- (b) Attempt any three : 9
- (1) Write short note on OBR.
 - (2) Explain RAM.
 - (3) Write short note on pen drive.
 - (4) Write the advantages of High level language.
 - (5) Differentiate compiler and interpreter.
 - (6) Discuss the disadvantages of machine language.
- (c) Attempt any two : 10
- (1) Write short note on laser printer.
 - (2) Explain magnetic disk in brief.
 - (3) Write short note on LCD.
 - (4) Explain multiprogramming OS.
 - (5) Explain computer ports.

- 3 (a) Attempt any three : 6
- (1) Write short note on blue tooth piconets.
 - (2) What is Hot-Spot ?
 - (3) Explain half and full duplex.
 - (4) Explain CDMA.
 - (5) Write short note on cell phone frequency.
 - (6) Explain the use of GIS.
- (b) Attempt any three : 9
- (1) Explain remote sensing.
 - (2) Explain Wi-Fi.
 - (3) How to create blue tooth connection ?
 - (4) Write history of virus.
 - (5) Discuss the types of virus.
 - (6) Explain blue tooth security.
- (c) Attempt any two : 10
- (1) Write short note on GPS.
 - (2) Write short note on optical fiber.
 - (3) Explain virus protection.
 - (4) Write short note on mainframe computer.
 - (5) Explain OMR and OBR.
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