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003-003103
B.C.A. (CBCS New) Sem.-I Examination
December-2013
CS-03 : Computer Fundamentals & Emerging Technology

Faculty Code : 003
Subject Code : 003103

Time : 2½ Hours]   [Total Marks : 70

1. Give the answer of the following MCQ in Answer Sheet only :   20

   (1) The capacity of 3.5 inch floppy disk is
     (a) 1.40 MB   (b) 1.44 GB
     (c) 1.40 GB   (d) 1.44 MB

   (2) EEPROM stand for
     (a) Electrically Erasable Programmable Read Only Memory
     (b) Easily Erasable Programmable Read Only Memory
     (c) Electronic Erasable Programmable Read Only Memory
     (d) None of the above

   (3) Spiral Track is used in which of the device ?
     (a) Hard Disk   (b) Floppy Disk
     (c) Compact Disk   (d) All the above

   (4) Cell Phone Network used which type cells ?
     (a) Element Cells   (b) Memory Cells
     (c) Radio Cells   (d) None of the above

   (5) A computer program that converts an entire program into machine language is called a/an
     (a) Interpreter   (b) Simulator
     (c) Compiler   (d) Commander

   (6) Which Technology used in most Television Remote Control ?
     (a) Remote Sensor   (b) Infrared
     (c) Wi-Fi   (d) All the above

   (7) Which offer internet access over the wireless LAN through Internet Connection ?
     (a) Wi-Fi Hot Spot   (b) Bluetooth
     (c) Wi-Max   (d) None of these

   (8) MICR stands for
     (a) Magnetic Ink Character Reader
     (b) Magnetic Ink Cases Reader
     (c) Magnetic Ink Code Reader
     (d) None of these

   (9) Which language is directly understood by the computer without translation program ?
     (a) Assembly language   (b) Machine language
     (c) High level language   (d) None of the above

   (10) The disk drive component used to position read/write heads over a specific Track-1 known as
     (a) Acoustic couples   (b) Cluster
     (c) Access arm   (d) All of the above

   (11) The octal equivalent of 101001 is
     (a) 51.   (b) 71.
     (c) 72.   (d) 52.

   (12) Which system provides communication in both directions at a time ?
     (a) Half-Duplex   (b) Full-Duplex
     (c) Simple-Duplex   (d) (a) & (b) both

   (13) Which is the first Virus Detect in Network ?
     (a) Melissa   (b) Parents
     (c) Brain   (d) Creeper

   (14) Which device read the Bar Code of product ?
     (a) OMR   (b) OBR
     (c) OCR   (d) OBC

   (15) Which is known as Serial. Sequential off line or stacked job processing operating system ?
     (a) Multiuser Process   (b) Real Time
     (c) Time Sharing   (d) Batch Processing

   (16) Who developed a advance mechanical device in the 17th century that could add. subtracts. multiply. divide and find square roots ?
     (a) Napier   (b) Babbage
     (c) Pascal   (d) Leibniz

(17) PDA stands for
- (a) Personal Digital Assistance
- (b) Private Digital Application
- (c) Public Data Analysis
- (d) Private Data Analysis

(18) Seek time is
- (a) Time to position the head over proper track.
- (b) Time to position the head over proper sector.
- (c) Time to position the head over proper cylinder.
- (d) None of the above

(19) SIM stands for
- (a) Subscriber Identity Module
- (b) System Identify Mode
- (c) System Information Mode
- (d) System Identity Module.

(20) Which of the following printers are you sure to use if your objective is to print on multi carbon forms ?
- (a) Daisy Wheel
- (b) Dot Matrix
- (c) Laser
- (d) Thimble

2. (A) Attempt any **three** out of six :　　　　　　　　　6
- (1) Explain the Organization of Computer.
- (2) Explain Scanner as Input Device.
- (3) Explain the word processing of Software Packages.
- (4) Explain characteristics of the computer.
- (5) Explain Computer Cables.
- (6) Explain Computer Processors.

(B) Attempt any **three** out of six :　　　　　　　　　9
- (1) Explain difference between analog. digital, hybrid computer.
- (2) Explain LCD. OHP and Speaker as Output Device.
- (3) Explain Digitizer, Graphic table and Camera as Input Device.
- (4) Do as direct.
  - (i) $(ABC)_{16}$ Convert into Binary.
  - (ii) $(341)_6$ Convert into nine Base.
  - (iii) $(675.34)_8$ Convert into Decimal.
- (5) Explain Spread sheet. Graphical. Database Software Packages.
- (6) Convert into 1's Complement (1) 1001011011 (2) 00000001

(C) Attempt any **two** out of five :　　　　　　　　　10
- (1) Explain the Computer Languages.
- (2) Explain Dot-Matrix Printer in detail.
- (3) Explain CRT as Output Device.
- (4) Explain Non Impact Laser Printer.
- (5) Explain Computer Generations.

3. (A) Attempt any **three** out of six :　　　　　　　　　6
- (1) Explain Computer Virus.
- (2) Explain GIS and GPS.
- (3) Define the following terms :
  - (i) Buffer/Spooling
  - (ii) CLI/Wild Card Character
- (4) Explain Parity Check System.
- (5) Explain different types of Codes & convert COMPUTER into ASCII-8.
- (6) $(10111)_2$ is Subtract from $(101)_2$ using of 2's Complement.

(B) Attempt any **three** out of six :　　　　　　　　　9
- (1) Explain CDMA and GSM.
- (2) Explain Cell Phone.
- (3) Explain Translator with detail.
- (4) Explain Operating System.
- (5) Explain Wi-Fi as Communication Device.
- (6) Do as direct.
  - (i) $(45.50)_{10}$ Convert into Binary.
  - (ii) $(BC.10)_{16}$ Convert into Decimal.

(C) Attempt any **two** out of five :　　　　　　　　　10
- (1) Explain Modem and Division of Numbering System.
- (2) Explain working process of CD and Blu-Ray Disk.
- (3) Explain working process of Hard Disk with Seek Time, Latency Time.
- (4) Explain Primary Memory in detail.
- (5) Explain Bluetooth and Infrared Technology.