



MBI-003-001107 Seat No. _____

B. Sc. (Sem. I) (CBCS) Examination
November / December – 2016
Computer Application : Paper-CA-101
(Old Course)

Faculty Code : 003
Subject Code : 001107

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

[Total Marks : 70

- 1 Answer M.C.Q. 20
- (1) Which of the following produces the best quality graphics reproduction ?
(A) Printer (B) Plotter
(C) Digitizer (D) Synthesizer
- (2) _____ is an exit-controlled loop.
(A) while (B) do...while
(C) for loop (D) none of these
- (3) Punch cards were invented by _____.
(A) Herman Hollerith (B) Charles Babbage
(C) John Von Neumann (D) Napier
- (4) _____ is a study related to computers, surrounding user behaviour and its effect on individuals and society especially for internet users.
(A) cyber law (B) cyber ethics
(C) cyber crime (D) none of these
- (5) _____ is a scholarly publication model which provides unrestricted, free, immediate and online access to peer-reviewed scholarly research along with the rights to use it.
(A) open access (B) journal
(C) research paper (D) none of these
- (6) IPR stands for _____.
(A) Intellectual Property Rights
(B) Intellectual Proprietary Rights
(C) Intellect Property Rights
(D) Intelligent Property Rights

- (7) PARAM is a type of _____ computer.
 (A) mainframe (B) mini
 (C) micro (D) super
- (8) 1 nibble equals to _____.
 (A) 1 bits (B) 2 bits
 (C) 4 bits (D) 8 bits
- (9) The word length of a computer is measured in _____.
 (A) Bytes (B) Bits
 (C) Nibble (D) None
- (10) _____ software are designed to perform specific tasks.
 (A) Utility (B) Application
 (C) System (D) Internal
- (11) Which unit holds data temporarily ?
 (A) Input unit (B) Secondary storage unit
 (C) Output Unit (D) Primary Storage Unit
- (12) The full form of EDSAC is_____.
 (A) Electronic Delay Storage Automatic Calculator
 (B) Electronic Data Storage Automatic Calculator
 (C) Electronic Delay Storage Automatic Computer
 (D) Electric Discrete Storage Automatic Computer
- (13) Access time is _____.
 (A) seek time + latency time (B) seek time
 (C) latency time (D) delay
- (14) A computer program that converts an entire program into machine language is called a/an_____.
 (A) Compiler (B) Simulator
 (C) Interpreter (D) Assembler
- (15) Which of the following memories need refresh ?
 (A) SRAM (B) DRAM
 (C) ROM (D) All of these
- (16) _____ is a character-recognition technology used mainly by the banking industry in the processing and clearance of cheques and other documents.
 (A) MICR (B) OCR
 (D) OMR (D) OPR
- (17) Which of the following is a correct comment ?
 (A) `**Comment**` (B) `*/Comment*/`
 (C) `/*Comment*/` (D) `{Comment}`

- (18) Which of the following is the header file for Character Case-Mapping functions in C?
 (A) #include<stdio.h> (B) #include<ctype.h>
 (C) #include<stdlib.h> (D) #include<conio.h>
- (19) What will be the output of the following statement in C program:printf(3+"goodbye");
 (A) bye (B) dbye
 (C) goodbye (D) odbye
- (20) ISDN stands for _____
 (A) Integrated Services Digital Network
 (B) Integrated Storage Digital Network
 (C) Integrated System Digital Network
 (D) International Servies Digital Network

- 2 (a) Explain the following : (any three) 6
 (1) Define the terms : 'cyber crime' and 'cyber ethics'.
 (2) What is a variable ?
 (3) List the types of registers in processor-memory architecture.
 (4) Define main() function in C.
 (5) What is a compiler ?
 (6) What is plagiarism ?
- (b) Explain the following : (any three) 9
 (1) Define : copyright and patents.
 (2) Differentiate : Volatile memory vs. Non-volatile memory.
 (3) How to observe cyber safety at home ?
 (4) Give the full forms of ENIAC, EDVAC and EDSAC.
 (5) What is processor ?
 (6) What are malicious programs ?
- (c) Explain the following : (any two) 10
 (1) Explain super computer with its characteristics.
 (2) Write a note on the types of computers of the first generation of computers.
 (3) Differentiate : Impact printers vs. Non-impact printers
 (4) Expain Optical disks and its types.
 (5) Write a C program to print the following pattern :

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1
0 1
1 0 1
0 1 0 1
1 0 1 0 1

```

- 3 (a) Explain the following : (any three) 6
- (1) What are literals in C ?
 - (2) Define : getch() and getche()
 - (3) Who initiated the free software movement and in which year ?
 - (4) Define format specifier in C.
 - (5) How WiFi is used as a knowledge repository ?
 - (6) What is information overload ?
- (b) Explain the following : (any three) 9
- (1) What is goto in C ? What is the disadvantage of using it in the program ?
 - (2) What are signed and unsigned datatypes in C ?
 - (3) What are input and output interfaces ?
 - (4) Define : looping structures and list its types.
 - (5) Differentiate : Magnetic Tape vs. Magnetic Disk
 - (6) What is aperture in floppy disk ?
- (c) Explain the following : (any two) 10
- (1) Explain the processor-memory architecture in detail with appropriate diagram.
 - (2) Explain Magnetic Tape in detail with its characteristics.
 - (3) Draw a Flowchart for checking whether the entered number is prime or not.
 - (4) Explain the classification of computers in detail.
 - (5) Write a C program to allow user to enter N as total number of values and print the following series :
1 2 1 3 1 4 1 5 1 6 1 7.....N.
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