BAU-003-003109 Seat No. _____

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

November / December – 2015

CS-03 : Computer Fundamentals & Emerging Technology

(New Course)

Faculty Code : 003

Subject Code : 003109

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

1 Attempt all MCQ Questions. **20**

(1) CD-ROM stands for

(A) Compactable Read Only Memory

(B) Compact Data Read Only Memory

(C) Compactable Disk Read Only Memory

(D) Compact Disk Read Only Memory

(2) ALU is

(A) Arithmetic Logic Unit

(B) Array Logic Unit

(C) Application Logic Unit

(D) None of above

(3) VGA is

(A) Video Graphics Array

(B) Visual Graphics Array

(C) Volatile Graphics Array

(D) Video Graphics Adapter

(9) 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

(10) In analog computer

(A) Input is first converted to digital form

(B) Input is never converted to digital form

(C) Output is displayed in digital form

(D) All of above

(11) In latest generation computers, the instructions are executed

(A) Parallel only

(B) Sequentially only

(C) Both sequentially and parallel

(D) All of above

(12) An error in software or hardware is called a bug. What is the alternative computer jargon for it?

(A) Leech (B) Squid

(C) Slug (D) Glitch

(13) Modern Computer are very reliable but they are not

(A) Fast (B) Powerful

(C) Infallible (D) Cheap

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(14) Which is not a type of Impact Printer?

(A) Dot Matrix Printer

(B) Laser Printer

(C) Daisy Wheel Printer

(D) Drum Printer

(15) What is meant by a dedicated computer?

(A) Which is used by one person only

(B) Which is assigned to one and only one task

(C) Which uses one kind of software

(D) Which is meant for application software

(16) The act of retrieving existing data from memory is called

(A) Read-out (B) Read from

(C) Read (D) All of above

(17) Instructions and memory address are represented by

(A) Character code

(B) Binary codes

(C) Binary word

(D) Parity bit

(18) Programs designed to perform specific tasks is known as

(A) system software (B) application software

(C) utility programs (D) operating system

(19) Perforated paper used as input of output media is known as

(A) paper tapes (B) magnetic tape

(C) punched papers tape (D) card punch

(20) A computer which CPU speed around 100 million instruction per second and with the word length of around 64 bits is known as

(A) Super computer (B) Mini computer

(C) Micro computer (D) Macro computer

2 (a) Attempt any Three : **6**

(1) Give the definition of computer.

(2) Explain block Diagram of computer.

(3) Explains characteristics of computer.

(4) Explain Generation of computer.

(5) Which are the Input Devices? Explain it.

(6) Which are the Output Devices? Explain it.

(b) Attempt any **three** : **9**

(1) Explain Storage Devices in brief.

(2) Convert as per following

Decimal to Binary

(a) 35679 (b) 95678 (c) 3256

(3) Convert as per following

Decimal to Octal

(a) 35679 (b) 95678 (c) 3256

(4) Convert as per following

Decimal to Hexadecimal

(a) 35679 (b) 95678 (c) 325

(5) Convert into 1's Complement :

(a) 100111011 (b) 10011.10101

(6) Convert into 2's Complement :

(a) 100111011 (b) 10011.10101

(c) Attempt any **two** : **10**

(1) Addition of two no.:

100111011 + 1001110101

(2) Convert into BCD code :

(a) 42678 (b) 23012

(3) Convert into EBCDIC code :

(a) 42678 (b) 23012

(4) Hexadecimal to Octal :

(a) 98AF5 (b) 456DCA23

(5) Octal to Binary :

(a) 56748 (b) 6234

3 (a) Attempt any Three : **6**

(1) Explain types of Memory.

(2) List out Computer Languages and explain in detail.

(3) What is OS? List out all OS and explain in detail.

(4) Explain types of processors.

(5) Explain types of memory slots.

(6) Explain types of magnetic storage devices.

(b) Attempt any Three : **9**

(1) Explain types of number system in brief.

(2) Explain GIS and GPS

(3) Explain all high level language.

(4) Explain fiber optic with example.

(5) Explain CDMA and GSM.

(6) Explain Bluetooth.

(c) Attempt any Two : **10**

(1) Explain types of virus in detail.

(2) Explain types of software packages.

(3) Explain how to protect your system from virus.

(4) Explain types of codes.

(5) Explain non CRT display units.
