



MBD-003-1031003

Seat No. _____

B. C. A. (Sem. I) (CBCS) (W.I.F. 2016) Examination

November / December – 2016

CS-03 : Computer Fundamental & Emerging Tech.

(New Course)

Faculty Code : 003

Subject Code : 1031003

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

[Total Marks : 70

Instructions :

- (1) All questions are compulsory.
- (2) Write answers of all question in main answer sheet.
- (3) Draw a diagram when ever necessary.

1 Attempt the following questions : 20

- (1) Write down fullform of ASCII.
- (2) List out all non-impact printers.
- (3) Define OBR.
- (4) CPU stands for what ?
- (5) Which two types of Manufacturers are available in market for processor ?
- (6) In which generation of computer artificial intelligence technology is used ?
- (7) Give fullform of CRT and list out parts of it.
- (8) Define Motherboard.
- (9) Which type of Monitor uses bulb technology in order to display the data ?
- (10) List out all size of bytes in ascending order.
- (11) What is Operating System ?
- (12) Write fullform of CDMA.

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[Contd...

- (13) In which Conversion divides binary digits into group of 3 binary digits.
- (14) Give 1's complement of 100111001 binary number.
- (15) How many and which are the different levels of computer language ?
- (16) What is Compiler ?
- (17) Give fullform of MICR.
- (18) What is Backup and Recovery ?
- (19) Give fullform of ATM.
- (20) What is Application Software ? List out any 5.

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

- (1) What is Computer ? Explain block diagram of it.
- (2) Write down characteristics of computer.
- (3) Which are input devices ? Explain it.
- (4) What is Monitor ? Explain types of Monitors.
- (5) Explain paper storage device.
- (6) Convert into 1's complement :
(a) 10111001 (b) 11001.10101

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

- (1) Explain Magnetic storage media.
- (2) Explain Plotters with its types.
- (3) Explain generations of computers.
- (4) Convert as per following
→ Decimal to Binary
(i) 98756 (ii) 78632 (iii) 5632



- (5) Convert as per following :
→ Decimal to Octal
(i) 98756 (ii) 78632 (iii) 5632
- (6) Convert into 2's complement :
(i) 110111001 (ii) 10101.11101

(c) Attempt any two : 10

- (1) Addition of two no :
(i) 110011101 + 100111001
(ii) 110111001 + 101011110
- (2) Convert as per following :
→ Hexadecimal to Octal :
(i) AF698 (ii) A236DC45
- (3) Convert as per following :
→ Octal to Binary
(i) 48765 (ii) 4326
- (4) Convert into BCD Code :
(i) 12032 (ii) 67845
- (5) Perform binary Multiplication of following no :
(i) 101 * 10 (ii) 1111 * 101

3 (a) Attempt following any three : 6

- (1) What is OS ? Explain types of it.
- (2) Explain types of Processor.
- (3) Explain types of Memory.
- (4) Give difference between Compiler and Interpreter.
- (5) Write a note on computer port.
- (6) List out computer languages and explain it in detail.

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

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- (1) Explain types of number system in brief.
- (2) Explain methods of communications.
- (3) Give difference between :
High level language and Low level language.
- (4) Write a note on GIS and GPS.
- (5) Explain bluetooth with different types.
- (6) What is Modem ? Explain with its types.

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

10

- (1) What is Malware ? Explain all types of it.
- (2) Explain types of Software packages.
- (3) Write steps to protect computer from virus.
- (4) Explain binary Arithmetic with example.
- (5) List out all storage media and explain optical storage devices.