

Seat No. : \_\_\_\_\_

**DB-107**

**December-2018**

**B.C.A., Sem.-I**

**CC-101 : Fundamentals of Computer  
(Old Course)**

**Time : 2:30 Hours]**

**[Max. Marks : 70**

1. (A) Write the following :

- (1) What is Computer ? Explain its Advantages and Disadvantages. 7
- (2) Explain any five Categories of Computer. 7

**OR**

- (1) Explain machine cycle in Computer.
- (2) Explain various types of Computer Software.

(B) MCQs : (Any **four** out of **six**) 4

- (1) Mainframe is a large, expensive powerful computer that can handle hundreds of thousands of connected users simultaneously. (True/False)
- (2) \_\_\_\_\_ is volatile memory.
- (3) \_\_\_\_\_ is the main circuit board of the system.
- (4) Full form of SDRAM is \_\_\_\_\_.
- (5) Give the full form of EEPROM.
- (6) Access time is the amount of time it takes the processor to read data. (True/False)

2. (A) Write the following :

- (1) Explain any five Input Devices. 7
- (2) Explain CRT Monitor and LCD Monitor. 7

**OR**

- (1) Explain various Gaming Controllers.
- (2) What is Printer ? Explain Laser printer and Thermal printer.

(B) MCQs : (Any **four** out of **six**) 4

- (1) List any two types of mobile computer.
- (2) 1 \_\_\_\_\_ = 1024 GB
- (3) A \_\_\_\_\_ pointing device has a rubber ball on its top side.
- (4) Full form of OCR is \_\_\_\_\_.
- (5) 1 BYTE equal to \_\_\_\_\_ bit.
- (6) A touch screen is not a touch sensitive display device.

3. (A) Write the following : 7
- (1) Write a short note on Hard Disk and its characteristics. 7
- (2) Write a short note on Optical Disk and its type.

**OR**

- (1) Define the following :
- (a) TAPE (b) Optical Disk
- (c) Storage Device (d) Smart card
- (e) DVD ROM
- (2) What is file ? Explain Master file and Backup file with example.

- (B) MCQs : (Any **three** out of **five**) 3

- (1) Full Form of DVD is \_\_\_\_\_.
- (2) \_\_\_\_\_ storage required sequential access.
- (3) Define Microfilm.
- (4) Full Form of CMOS is \_\_\_\_\_.
- (5) 1 GB \_\_\_\_\_ KB

4. (A) Write the following : 7
- (1) Explain BCD code in detail. 7
- (2) Convert the following to Octal.
- (i)  $(248.65)_{10}$  (ii)  $(BC.35)_{16}$

**OR**

- (1) Convert the following to Decimal :
- (i)  $(7C.45)_{16}$  (ii)  $(562)_8$
- (2) Convert the following to Hexadecimal :
- (i)  $(11111100101)_2$  (ii)  $(432)_{10}$

- (B) MCQs : (Any **three** out of **five**) 3

- (1) \_\_\_\_\_ Number system does not contain only numbers.
- (2) Full form of BCD is \_\_\_\_\_.
- (3) The 4-bit equivalent of the decimal number 8 is \_\_\_\_\_.  
 (a) 0101 (b) 0111 (c) 0110 (d) 1000
- (4) Full form of ASCII is \_\_\_\_\_
- (5) The Octal representation of 19 is 23. (True/False)
- \_\_\_\_\_

Seat No. : \_\_\_\_\_

**DB-107**

**December-2018**

**B.C.A., Sem.-I**

**CC-101 : Introduction to Computer and Emerging Technologies  
(New Course)**

**Time : 2:30 Hours]**

**[Max. Marks : 70**

1. (A) Write the following :

- (1) Explain super computer and embedded computer in details. 7
- (2) Write a short note on various mobile computer and devices. 7

**OR**

- (1) Explain various types of ports in details.
- (2) Write a short note on cloud computing.

(B) MCQs : (Any **four** out of **six**) 4

- (1) USB Stand for \_\_\_\_\_
- (2) Smartphone typically communicates wirelessly with other device or computer. (true/false)
- (3) \_\_\_\_\_ port transmits data by transferring more than one bit at a time.
  - (a) USB Port (b) Parallel Port
  - (c) Fire wire Port (d) Special purpose port
- (4) Full form of MIDI is \_\_\_\_\_.
- (5) Cloud Computing refers to an environment that provides resources and services accessed via internet. (True/False)
- (6) PDA stands for \_\_\_\_\_.

2. (A) Write the following :

- (1) What is Memory ? Explain types of Memory with example. 7
- (2) Explain Hard Disk in details with its characteristics. 7

**OR**

- (1) What is Processor ? Explain types of Processor in details.
- (2) Define the following terms. :
  - (i) Motherboard (ii) Register (iii) System Clock
  - (iv) DVD ROM (v) Memory Card (vi) Smart Card

(B) MCQs : (Any **four** out of **six**) 4

- (1) RAID Stand for \_\_\_\_\_
- (2) The address bus transfer information about where the data should reside in memory. (True/False)

- (3) \_\_\_\_\_ is the process of obtaining a program instruction or data item from memory.  
 (a) Fetching (b) Decoding (c) Executing (d) Storing
- (4) Full form of DVD is \_\_\_\_\_.
- (5) The speed of storage device is defined by access time. (True/False)
- (6) MICR Stand for \_\_\_\_\_.

3. (A) Write the following :

- (1) Explain various types of pointing device. 7
- (2) Explain display Technologies and display quality in details. 7

**OR**

- (1) What is printer? Explain non-impact printer.
- (2) Explain OCR, MICR, OMR, BCR used by optical reader.

(b) MCQs : (Any **three** out of **five**) 3

- (1) \_\_\_\_\_ and \_\_\_\_\_ are impact printers.
- (2) \_\_\_\_\_ storage device has minimum storage capacity.  
 (a) Pen drive (b) DVD (c) Floppy Disk (d) CD ROM
- (3) Printer resolution is measured by the number of \_\_\_\_\_ a printer can print.
- (4) Fingerprint scanner is type of biometric input device. (True/False)
- (5) Laser printer used ink for printing a paper. (True/False)

4. (A) Write the following :

- (1) Explain ASCII code in detail. 7
- (2) Convert the following to Octal : 7  
 (i)  $(137.57)_{10}$  (ii)  $(AD.48)_{16}$

**OR**

- (1) Convert the following to Decimal :  
 (i)  $(5B.36)_{16}$  (ii)  $(136)_8$
- (2) Convert the following to Hexadecimal  
 (i)  $(110110101)_2$  (ii)  $(253)_{10}$

(B) MCQs : (Any **three** out of **five**) 3

- (1) \_\_\_\_\_ Number system does not contain only numbers.
- (2) Full form of EBCDIC is \_\_\_\_\_.
- (3) The 4-bit equivalent of the decimal number 7 is \_\_\_\_\_.  
 (a) 0101 (b) 0111 (c) 0110 (d) 1000
- (4) Full form of ASCII is \_\_\_\_\_.
- (5) The Octal representation of 18 is 21. (True/False)