

Seat No. : _____

MB-101

March-2019

B.C.A., Sem.-I

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

Time : 2:30 Hours]

[Max. Marks : 70

1. (A) (i) Explain various mobile devices. 7
(ii) Explain terminals and supercomputer. 7
- OR**
- (i) Explain various technology uses. 7
(ii) Explain various digital security and privacy issues. 7
- (B) Do as directed. (Any 4) 4
1. A computer that delivers requested web pages to your computer or mobile device is _____.
 2. An all-in-one contains a separate tower. (T/F)
 3. SLR cameras are much heavier and larger than point-and-shoot cameras. (T/F)
 4. _____ refers to an environment that provides resources and services accessed via the internet.
 5. _____ is a special computer that functions as a component in a large product.
 6. Power users work with a high end desktops called _____.
2. (A) (i) Write short note on Processor. 7
(ii) Explain : Cloud storage, Network attached storage and memory card. 7
- OR**
- (i) Define : Memory. Explain various types of memory. 7
(ii) Write short note on Hard disk. 7

- (B) Do as directed : (Any 4) 4
1. _____ is an alternative to a magnetic stripe card.
 2. A group of two or more integrated hard drives is called _____.
 3. With serial transfer data is sent one bit at a time. (T/F)
 4. ROM chips also are called firmware. (T/F)
 5. _____ port used to connect musical instruments.
 6. _____ is a main circuit board of the computer.
3. (A) (i) Explain : Ink-Jet, Thermal and Mobile printers. 7
- (ii) Explain : Optical Scanners, Bar Code Readers, MICR Readers. 7
- OR**
- (i) Explain : Impact printers and plotters. 7
- (ii) Explain : Display Technologies and their quality. 7
- (B) Do as directed : (Any 3) 3
1. Printer resolution is measured by number of pixels per inch it can print. (T/F)
 2. _____ read hand-drawn marks, such as small circles or rectangles.
 3. _____ is a type of 2D bar code that stores information in both horizontal and vertical directions.
 4. _____ is an example of toggle key.
 5. A data collection device reads and scans data from a source document. (T/F)
4. (A) (i) Convert to decimal : $(1100110.101)_2$ and $(402.5)_8$ 7
- (ii) Convert to octal : $(A56.9C)_{16}$ and $(145.9)_{10}$ 7
- OR**
- (i) Convert to decimal : $(111011010.011)_2$ and $(9A4.5)_{16}$ 7
- (ii) Convert to binary: $(6B5.A9)_{16}$ and $(156.65)_{10}$ 7
- (B) Fill in the blanks : (Any 3) 3
1. _____ is the base of hexadecimal number system.
 2. _____ Universal coding standard uses 16 bit to represent characters and symbols.
 3. Full form of ASCII is _____.
 4. Octal representation of 25 is _____.
 5. Computer codes are also known as _____.

MB-101

March-2019

B.C.A., Sem.-I

CC-101 : Fundamentals of Computer (Old Course)

Time : 2:30 Hours]

[Max. Marks : 70

1. (A) Answer the following : 7
Define Memory. Explain different types of memory.
- OR**
- List various categories of Computer. Explain any four categories of computer.
- (B) Answer the following : 7
Explain System software, Motherboard, Parallel processing.
- OR**
- Explain Machine cycle, Application software, Parallel port.
- (C) Attempt : (Any 4) 4
1. _____ is the process of setting up software to work with computer.
 2. List any two types of mobile computers.
 3. _____ category of users uses workstation or other powerful computer.
 4. List four basic operations of machine cycle.
 5. 1GB = _____ kB.
 6. CPU is divided in _____ and _____.
2. (A) Answer the following : 7
Explain Laser printer, Thermal printer, Inkjet printer
- OR**
- Explain any two pointing device and two gaming controllers.
- (B) Answer the following : 7
Explain Digital cameras and Video inputs.
- OR**
- Explain Multifunction peripherals and Flat panel displays
- (C) Attempt (Any 4) : 4
1. _____ is a technology that uses radio waves to transmit data between two devices.
 2. Full form of MICR is _____.
 3. A Photo printer generates images by pushing electrically heated pins against heat sensitive paper.(T/F)
 4. _____ type of non-impact forms characters by spraying tiny drops of liquid ink.
 5. _____ and _____ are impact printers.
 6. _____ is a most common biometric input device.

3. (A) Answer the following : 7
 Define File. Explain transaction file, master file and output file with example.
OR
 Explain different types of Optical disc.
- (B) Answer the following : 7
 Explain floppy disk, smart card.
OR
 Explain Hard disk.
- (C) Attempt (Any 3) : 3
1. Hard disk improves their access time by using disk _____.
 2. A _____ is the smallest unit of disk space that stores data and information.
 3. Full form of RAID.
 4. _____ storage require sequential access.
 5. 1MB= kB _____.
4. (A) Solve the following : 7
 Convert following decimal numbers to binary.
 (a) 165.03125
 (b) 87.56
OR
 Convert following hexadecimal numbers to decimal
 (a) 7C.8A9
 (b) A59.DF
- (B) Solve the following : 7
 Convert following octal number to decimal
 5024.45
OR
 Convert following binary number to decimal
 11101010011.01011
- (C) Attempt (Any 3) : 3
1. Full form of EBCDIC is _____.
 2. The octal representation of decimal number 20 is 25. (T/F)
 3. _____ is a 7 bit coding scheme.
 4. Full form of ASCII is _____.
 5. _____ is a 16 bit coding scheme.
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