



HDG-003-1031003N

Seat No. _____

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

November / December – 2017

**CS-03 : Computer Fundamentals &
Emerging Technology
(New Course)**

Faculty Code : 003

Subject Code : 1031003N

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

[Total Marks : 70

- 1 (a) Answer the following questions : 4
- (1) Who was the inventor of first mechanical Calculator machine ?
 - (2) Give the full form of UNIVAC.
 - (3) Which is the main component of Third Generation Computer?
 - (4) Give the full form of EEPROM.
- (b) Attempt any one out of two from the following : 2
- (1) Explain Processors with its types.
 - (2) Explain Evolution of Computers.
- (c) Attempt any one out of two from the following : 3
- (1) Explain types of Ports in brief.
 - (2) Explain in brief types of ROM.
- (d) Attempt any one out of two from the following : 5
- (1) Give in detail about types of Computer.
 - (2) Explain in brief Generation of Computer.
- 2 (a) Answer the following questions : 4
- (1) Give the full form of POS.
 - (2) Which Input device is used to translate paper document into an electronic format ?
 - (3) Give the full form of VoIP.
 - (4) Full form of OCR.

- (b) Attempt any one out of two from the following : **2**
- (1) Explain Digitizers and Graphic Tablet.
 - (2) Give in detail about Seek Time and Access Time.
- (c) Attempt any one out of two from the following : **3**
- (1) Explain Tracks, Sectors and Clusters.
 - (2) Explain types of Pointing Device.
- (d) Attempt any one out of two from the following : **5**
- (1) Explain in brief types of Magnetic Storage Devices.
 - (2) What is Scanners? Explain types of Scanners.
- 3** (a) Answer the following questions : **4**
- (1) Give the full form of VDU.
 - (2) Tele-copying is also known as _____.
 - (3) Give the name of Non Impact Printers.
 - (4) Full form of COM.
- (b) Attempt any one out of two from the following : **2**
- (1) Give in detail about Google Glass.
 - (2) Explain SGD.
- (c) Attempt any one out of two from the following : **3**
- (1) Explain types of Monitors.
 - (2) Explain OLED in brief.
- (d) Attempt any one out of two from the following : **5**
- (1) Explain types of Impact Printers in brief.
 - (2) What is Plotters? Explain types of Plotters.

- 4 (a) Answer the following questions : 4
- (1) Nibble is also known as _____.
 - (2) 1's Compliment of 011001010.
 - (3) Give the full form of EBCDIC.
 - (4) 2's Compliment of 00110101
- (b) Attempt any one out of two from the following : 2
- (1) (i) Convert Decimal to Binary $174_{10} = ?_2$
(ii) Convert Binary to Decimal $110010110_2 = ?_{10}$
 - (2) Perform binary Multiplication of following no. :
 - (i) $1101 * 101$
 - (ii) $1110 * 111$
- (c) Attempt any one out of two from the following : 3
- (1) Addition of two no. :
 - (i) $11101001 + 10111101$
 - (ii) $1011100.1010 + 1110101.0100$
 - (iii) $11001001 + 111101$
 - (2) Explain Graphical and Spread Sheet Packages in brief.
- (d) Attempt any one out of two from the following : 5
- (1) What is Numbering System? Explain types of Numbering System.
 - (2) Explain types of Operating Systems in brief.
- 5 (a) Answer the following questions : 4
- (1) Full form of GIS.
 - (2) Converting one signal from digital to analog is called _____.
 - (3) Give the full form of CDMA.
 - (4) _____ a small picture that represents an Object or Program.

- (b) Attempt any one out of two from the following : **2**
- (1) Explain Backup and Restore.
 - (2) Explain Infrared and Bluetooth.
- (c) Attempt any one out of two from the following : **3**
- (1) Explain types of Virus.
 - (2) What is Compiler? Explain its type.
- (d) Attempt any one out of two from the following : **5**
- (1) Explain any five Communication Devices in brief.
 - (2) Explain in brief Cloud Computing.
-