

**1 SEM TDC GECA (CBCS) GE 1**

**2 0 2 1**

( March )

COMPUTER APPLICATION

( Generic Elective )

Paper : GE-1

**( Computer Fundamentals )**

*Full Marks : 53*

*Pass Marks : 21*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

**1.** Answer the following : 1×10=10

- (a) What is supercomputer?
- (b) Write the base of a hexadecimal number.
- (c) Define application software.
- (d) What is volatile memory?
- (e) Give an example of graphical user interface-based operating system.

- (f) What is the use of OMR?
- (g) What is plotter?
- (h) Define register.
- (i) What is the use of SMPS?
- (j) Define big data.

**2.** Answer any *five* from the following : 5×5=25

- (a) Define computer. Explain the block diagram of a computer. Draw the necessary diagram. 1+3+1=5
- (b) Convert the numbers : 1+2+2=5
  - (i)  $(127)_8 = (?)_2$
  - (ii)  $(1101.11)_2 = (?)_{10}$
  - (iii)  $(DA2)_{16} = (?)_2$
- (c) Define bit, byte, nibble and word. 5
- (d) Define system software. Explain the concept of OS. 2+3=5
- (e) What is an output device? Explain various types of output device. 1+4=5
- (f) What is the use of secondary memory? Explain various types of auxiliary memory. 1+4=5

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3. Explain in brief (any *three*) :                    6×3=18

(a) Hard disk

(b) Data mining

(c) Mobile computing

(d) Utility programs

(e) Computer ports and interfaces

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