

1 SEM TDC GECS (CBCS) GE 1

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(March)

COMPUTER SCIENCE

(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.** Fill in the blanks : 1×5=5
- (a) ROM is an example of ___ memory.
 - (b) The access method used for magnetic tape is _____.
 - (c) _____ device can be used to directly input printed text.
 - (d) Actual execution of instructions in a computer takes place in _____.
 - (e) _____ errors can be pointed out by compilers.

- 2.** Answer the following : 2×5=10

- (a) Convert $(11110001)_2 = (?)_{16}$.
- (b) Differentiate between primary memory and secondary memory.
- (c) State two functions performed by an operating system.
- (d) List the different types of scanner.
- (e) Why use of pendrive is more suitable rather than the use of floppy?

- 3.** Answer any six from the following : 3×6=18

- (a) State the difference between Windows and UNIX operating systems.
- (b) Define impact printers. Explain any one of them.
- (c) Convert $(725.25)_8$ to its decimal and hexadecimal equivalent.
- (d) Find 2's complement :
 - (i) $(156)_{10} - (99)_{10}$
 - (ii) $(11010)_2 - (10000)_2$
- (e) Explain how a Bluetooth device work.
- (f) Describe the importance of cache memory.
- (g) Compare data bus with system bus.

(3)

4. Answer any *four* from the following : $5 \times 4 = 20$

- (a) Define bit, byte, nibble and word.
- (b) Explain the computer system with a neat diagram.
- (c) What is the main function of SMPS? State the different types of SMPS.
- (d) What is big data? Explain how big data analytics help to overcome different problems.
- (e) Define data mining. State the different areas where data mining application exist.
