

1 SEM TDC GECS (CBCS) GE 1

2023

(November)

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) PROM stands for ____.

(b) Joystick is a/an ____ device.

(c) OCR stands for ____.

(d) The base of octal number is ____.

(e) Operating system is a/an ____
software.

(2)

2. Answer the following questions : 2×6=12

- (a) Differentiate between primary and secondary memory.
- (b) What is peripheral device? Give example.
- (c) Define cache memory.
- (d) What is system software?
- (e) What is cloud computing?
- (f) What is heterogeneous storage?

3. Answer any six from the following : 6×6=36

- (a) Explain the characteristics of a computer system.
- (b) Convert the following :
 - (i) $(10011011.11)_2$ to octal
 - (ii) $(AFB21)_{16}$ to octal
 - (iii) $(2356)_8$ to decimal
- (c) Briefly explain about the basic components of a computer system with the help of a block diagram.
- (d) Briefly explain about Bluetooth technology.
- (e) Discuss about the use of computers in education and research.

(3)

(f) Write short notes on (any two) :

- (i) Data mining
 - (ii) SMPS
 - (iii) Plotter
- (g) Discuss about operating system as user interface.
- (h) Define analog and digital computers. Write the advantages and disadvantages of digital computers.
