



**2020/TDC (CBCS)/ODD/SEM/
BCACC-101T/015**

**TDC (CBCS) Odd Semester Exam., 2020
held in March, 2021**

COMPUTER APPLICATION

(1st Semester)

Course No. : BCACC-101T

(Computer Fundamentals)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

SECTION—A

1. Answer any *ten* of the following questions :

2×10=20

(a) Write down the difference between data and information.

(b) Why is computer known as data processor?

(c) Write down the advantages of mainframe computer.

(2)



<http://www.elearninginfo.in>

- (d) Mention some characteristics of fifth generation computer.
- (e) What do you mean by shell and kernel of an operating system?
- (f) What is utility software? Give example.
- (g) Write down the advantages of scanner.
- (h) What is OCR?
- (i) What are the different types of RAM available?
- (j) What is ROM?
- (k) Write down two characteristics of cache memory.
- (l) What is the read/write head of hard disk?
- (m) What is cloud computing?
- (n) Write down the usages of PS2 port and USB port.
- (o) Write down the functions of different cables used to connect different units.
- (p) Why is SMPS necessary?
- (q) Mention some uses of computer in research area.

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(Continued)

(3)

- (r) Write down the steps to search an article in Google Scholar.
- (s) Mention some advantages of e-library.
- (t) Why is SPSS used? Mention two areas where SPSS is used.

SECTION—B

Answer *any five* questions

2. (a) What are bit and byte? Also, define kilobyte (KB) and Megabyte (MB). 2
- (b) Perform complementary subtraction : 1
- $(92)_{10}$ from $(56)_{10}$
- (c) Convert the following : $1 \times 3 = 3$
- (i) $(101101110)_2 = (?)_{16}$
- (ii) $(3AB6)_{16} = (?)_8$
- (iii) $(10011 \cdot 10)_2 = (?)_{10}$
3. (a) Explain different generations of computer. 4
- (b) Write down the difference between mini- and micro-computer. 2

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(Turn Over)



4. Write short notes on the following : $2 \times 3 = 6$
- (a) Joystick
 - (b) OMR
 - (c) Barcode Reader
5. (a) Explain different types of printer and their advantages. 3
- (b) Briefly describe different types of system software. 3
6. What is secondary memory? Explain different types of secondary memory. What is SSD? $1+4+1=6$
7. How does cache memory work? Explain with suitable diagram. 6
8. What is data mining? Explain different applications of data mining. $2+4=6$
9. Explain the architecture of CPU showing different components with diagram. 6
10. Explain different features of Mathematica. 6
11. What is heterogeneous storage? How is heterogeneous storage used in different sectors? $3+3=6$
