



**2021/TDC/CBCS/ODD/
BCACC-101T/015**

**TDC (CBCS) Odd Semester Exam., 2021
held in March, 2022**

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

Answer **any ten** questions from the following :

$2 \times 10 = 20$

1. What is the importance of computer fundamentals in computer application?
2. Convert $(1101.101)_2 = (?)_{10}$.
3. Find the 9's complement of $(37)_{10}$.



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4. What is the main function of a plotter?
5. What is MICR used for?
6. Write the importance of good user interface in any OS.
7. What is SSD? Is SSD better than HDD?
8. What are the main uses of RAM?
9. How is data read from an optical disc?
10. Write a short note of SMPs.
11. Write down the applications of data mining.
12. What exactly is big data? Give example.
13. Write a short note on Google scholar.
14. Write a short note on Mathematica.
15. Write a short note on e-library.

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(Continued)

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SECTION—B

Answer any five questions from the following :

6×5=30

16. What is number system? Write four types of number systems and explain. Also write the process of converting a decimal number to octal number with example. $1+3+2=6$
17. (a) Subtract $(0111000)_2$ from $(1011100)_2$ using 1's complement.
- (b) Perform $11010 - 10000$ using 2's complement. $3+3=6$
18. Define OS. Write down its different functions. $1+5=6$
19. State the differences between the following : $3 \times 2 = 6$
 - (a) Open source software and Free software
 - (b) System software and Application software
20. What is the other name of auxiliary memory? Write down the characteristics of auxiliary memory. Also write the differences between RAM and ROM. $1+3+2=6$

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(Turn Over)



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21. Explain the working principle of cache memory. 6
22. Discuss computer organization briefly. 6
23. Write short notes on the following : 3×2=6
- (a) Cloud computing
 - (b) Embedded system
24. What do you mean by data analysis? Why is it required? Where is data analysis used generally? 2+2+2=6
25. What is SPSS? Write down its different features. 1+5=6

A