2022

BCA 1st Semester (CBCS) Examination

Computer Fundamental and Basic Operating Software

PAPER - CC-1T

Full Marks: 50

Time: 2 hours



The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer from all the Groups as directed.

GROUP-A

- 1. Answer any five questions:
- $2 \times 5 = 10$
- (a) How are the floating point numbers represented in computer memory?
- (b) Define star topology.

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(Turn Over)



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- (c) What is mnemonics?
- (d) What is algorithm?
- (e) What is LAN?
- Perform $(25)_{10} (15)_{10}$ using 1's complement arithmetic.
- 9 What do you mean by flash memory?
- B What is the difference between Net Banking and M-Banking?

GROUP-B

Answer any four questions :

- N Explain the drawbacks of machine languages. What are the functions of mainframe computer? 21/2+21/2=5
- ω What do you mean by utility software? Draw the block diagram of a computer system and explain briefly. 2+3=5
- 4 Draw a flowchart to find the GCD of two numbers.
- ÇT BCDIC and EBCDIC. Define cache memory. Differentiate between 21/2+21/2=5

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(Continued)

9 Perform the following:

 $2\frac{1}{2}+2\frac{1}{2}=5$

- (a) $(562)_8 (147)_8$ using 7's complement
- (b) $(152)_8 (76)_8$ using 8's complement

o Santa Convert the following:

(a) $(6A9 \cdot B2)_{16} = (?)_8$

21/2+21/2=5

(b) $(806 \cdot 305)_{10} = (?)_4$





Answer any two questions :

- difference between multiprogramming and Define operating system. What are the multitasking operating systems? functions of operating system? What is the 2+5+3=10
- o. Write short notes on the following: $2\frac{1}{2} \times 4 = 10$
- FTP
- Multiplexing
- 0 HTTP
- E-Commerce

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(Turn Over)

10. What is the primary difference between third and fourth generation computers? Differentiate between application software and system software. Why is the SSD much faster than HDD? What is the difference between dynamic RAM and static RAM?

2+3+2+3=10

11. Perform the following:

2½×4=10

- (a) $(609)_{BCD} (345)_{BCD}$
 - (b) $(339)_{BCD} + (685)_{BCD}$
 - (c) $(65.25)_{10} (37.75)_{10}$ using 2's complement
 - (d) $(33.125)_{10} (15.25)_{10}$ using 1's complement



BCA/1st Sem/CBCS/CC1T/23

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