

Roll No. Total No. of Printed Pages : 4

Code No. : BC-192

Online Annual Examination, 2022

B.C.A. Part I

Paper II

COMPUTER FUNDAMENTALS

Time : Three Hours] [Maximum Marks : 80

Note : Section 'A', containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section 'A'

Answer the following very short answer type questions in one or two sentences. 1 × 10 = 10

1. Define Hardware and Software.
2. Write the Full form of ASCII.
3. What is pointing Device ?
4. Define MICR.
5. What is Primary memory ?

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6. Write the full form of CD-ROM.
7. Define Assembler.
8. Write the name of any *two* system software.
9. What is the use of Taskbar ?
10. Define CUI and GUI.

Section 'B'

Answer the following short answer type questions with word limit 150-200. 4 × 5 = 20

1. Differentiate BCD code and EBCDIC code.

Or

What is Logic gates ? Construct logic circuit diagrams for Boolean Expression $A.\bar{B} + \bar{A}.B$ using NAND gate.

2. What is Scanning device ? Explain OCR and Thumb Scanner.

Or

Explain CRT and Projectors.

3. Explain Register and its type.

Or

Differentiate primary memory and secondary memory.

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4. What is flow chart ? Explain with example.

Or

Explain various types of Application software.

5. What is operating system ? Explain it's functions.

Or

Write the difference between DOS and Windows.

Section 'C'

Answer the following long answer type questions with word limit 300-350. $10 \times 5 = 50$

1. Convert the following :

(a) $(1110101.101)_2 = (?)_{10}$

(b) $(956)_{10} = (?)_{16}$

(c) $(A3D7)_{16} = (?)_8$

(d) $(752)_8 = (?)_2$

Or

Explain the following with example :

(a) Universal NAND and NOR gate.

(b) ASCII code.

2. What is Printer ? Explain their types with example.

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Or

Explain the following Input Devices :

(a) Card Readers (b) Touch screen

(c) Light Pen (d) Mouse

3. What is direct access Storage ? Explain Hard Disk and Optical Disk.

Or

Explain sequential, Direct and index sequential method in brief.

4. What is system software ? Explain various types of operating system.

Or

What is Language processor ? Explain linker and Loader.

5. Explain the following :

(a) Screen saver and appearance

(b) Creating a Batch file.

Or

Explain windows accessories in brief.

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