KK-2421

Bachelor of Computer Application
BCA (Sem. I) Examination,
December-2024

Introduction to Information Technology

Paper - BCA - 1001T

Time allowed : **Three Hours**

Max. Marks : **70**

Min. Marks : **28**

This question paper contains two sections as under:

https://www.pyqonline.com

SECTION - A

Max. Marks-20

This section will have 10 questions, having 02 questions from each unit with no internal choice. Answer in about 20 words. All questions will have equal marks. (10×2=20)

SECTION - B

Max. Marks-50

This section will have 10 questions, having 02 questions from each unit, one question to be attempted from each unit. Words limit approximately 400-500 words. Questions may have sub divisions. All questions will have equal marks. (10×5=50)

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SECTION - A

1 (i) Write the components of CPU.

(ii) What is the use of Magnetic tape ?

(iii) What do you mean by LAN ?

(iv) Convert $(111001)_2$ to decimal number.

(v) What do you mean by virtual memory ?

(vi) Explain one line difference between RAM and ROM.

(vii) What is system software ?

(viii) What do you mean by web browser?

(ix) What is positional number system ?

(x) Define flowchart with its symbols.

2×10=20

SECTION - B

UNIT - I

2 Define computer. Describe the block diagram of computer along with its components.

2+8=10

OR

Describe the following :

(a) Fourth gencration languages.

(b) Different types of input devices.

2×5=10

UNIT - II

3 What do you mean by programming languages ? Why high level languages are easier to learn and use ? Explain in brief. What are the characteristics of good programming language?

2+5+3=10

OR

(a) Convert thc following dccimal number to binary notation :

(i) 34

(ii) 10

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

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(b) Convert the following hexadecimal number to decimal number :

(i) 5BC

(ii) 7CA

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

UNIT - III

4 Differentiate among ROM, PROM and EPROM in detail.

10

OR

Write short notes on following :

(i) Floppy Disk Drives

(ii) Compact Disk

(iii) Cache Memory

(iv) Flash Memory

(v) DVD

2×5=10

UNIT - IV

5 Perform the following :

(i) 10010 + 1100 = ?

(ii) 1011000 – 111000 = ?

(iii) 110 × 101 = ?

(iv) 1010 × 101 = ?

(v) 101010 ÷ 110 = ?

2×5=10

OR

(a) What are the four basic rules of binary addition ?

(b) What do you mean by fixed-point and floating-point representation ?

2×5=10

UNIT - V

6 Explain the following :

(i) Internet Search Engine

(ii) World Wide Web

(iii) URL

(iv) IP Address

(v) Net Surfing.

2×5=10

OR

https://pyqlelo.com

(a) What is a web browser ? List and compare different available web browser.

(b) Explain how data is transferred over internet ?

2×5=10

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