

**U.G. 1st Semester Examination - 2021****BCA****Course Code : BBCACCHC101****Course Title : Fundamentals of Computer**

Full Marks : 30

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.*

1. Answer any **ten** questions:  $1 \times 10 = 10$
- What do you mean by diligence characteristic of a computer?
  - Write the advantages of transistor over vacuum tube.
  - Write the function of an assembler.
  - Write the measuring unit of memory of a computer.
  - What is the use of terminal symbol used in a flowchart?
  - Write the importance of virtual memory.
  - Write any two advantage of pseudocode?

- Find the value of  $X : (A4E)_{16} = (X)_2$
- What is 'BIOS'?
- Convert  $[652]_{10}$  into Excess-3 code.
- What do you mean by interface?
- Find the value of  $K : (10110101)_2 = (K)_8$
- Fill in the blanks :  $2TB = \underline{\hspace{2cm}}$  MB.
- Which number system is used by computer and how many symbols/digits are there in it?
- Which storage of computer system is known as auxiliary storage?

2. Answer any **five** questions:  $2 \times 5 = 10$
- Subtract 44 from 73 using 2's complement.
  - Write about the different types of ROM.
  - Why computer is referred as 'system'?
  - Define Assembly language.
  - Find the value  $X : (101101011101)_2 = (X)_5$
  - Define EROM and EEPROM.
  - How multiprogramming is different from multiprocessing?
  - What are the relationship between KB, MB, GB and TB?

3. Answer any **two** questions:  $5 \times 2 = 10$

a) i) Write the main functions of Operating System.

ii) What do you mean by multiprogramming OS? How it is different from multitasking?  $2+3$

b) Write short note on :  $2\frac{1}{2} + 2\frac{1}{2}$

i) Cache memory

ii) Primary memory

c) Draw a flowchart of an algorithm for finding factorial of a given integer number.  $5$

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