

U.G. 1st Semester Examination - 2020**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 information?
 - Convert 5 GB into bytes.
 - Define operating system.
 - Which storage of a computer system is known as auxiliary storage?
 - What do you mean by Kernel?
 - Define Loader.
 - What do you mean by computer network?

- Which number system is used by computer and how many symbols or digits are there in it?
- Give the definition of flowchart.
- What do you mean by volatile memory?
- What is CU?
- How Hardware is different from software?
- Find the value of Y : $(672)_8 = (Y)_4$
- Write the full form of EEPROM.
- What is linker?

2. Answer any **five** questions: $2 \times 5 = 10$
- Find the complement of the number $(C6D)_{15}$.
 - What are the relations between KB, MB, GB and TB?
 - What do you mean by application programs and application programmers?
 - Find the value of X : $(111011.01)_2 = (X)_8$.
 - Write two advantages of Pseudocode.
 - Define EROM and EEPROM.
 - Write the advantages of Assembly language over Machine language.
 - What do you mean by 'Pseudo code'?

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

- a) i) What happens when a computer divides a number by zero?
- ii) Subtract $(110111)_2$ from $(101110)_2$ using 2's complement. $2+3$
- b) Draw a flowchart of an algorithm which checks a number given by a user is odd or even?
- c) i) What is the use of address bus in main memory?
- ii) Describe the working of a cache memory. $2+3$
