SH-I/Computer Science/103/GE-1/19

B.Sc. 1st Semester (Honours) Examination, 2019-20

COMPUTER SCIENCE

Course ID : 11514 **Course Code : SH-CSC-103-GE-1**

Course Title : Introduction to Programming

Time: 1 Hour 15 Minutes **Full Marks: 25**

The figures in the margin indicate full marks.

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

1. Answer *any five*: 1×5=5

(a) Name the generation of computer with VLSI technology belongs.

(b) Write full form of ALU, CPU.

(c) What is flow chart?

(d) What is algorithm?

(e) What is structure?

(f) What is pointer?

(g) What is the use of `conio.h`?

(h) Write full form of RAM and EPROM.

2. Answer *any two*: 5×2=10

(a) Distinguish various generations of computers in brief.

(b) Draw a flow chart to check whether a given number is prime or not.

(c) Write short note on Input and Output devices.

(d) Distinguish between call by value and call by reference. Write a C program to concatenate two strings. 2+3=5

3. Answer *any one*: 10×1=10

(a) Write a program to print Fibonacci series upto 100 terms:

(i) Using recursion

(ii) Without using recursion 5+5=10

(b) Write a C program to find maximum and minimum of 3 integers and also write a C program to find factorial of a given number. 5+5=10

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B.Sc. 1st Semester (Honours) Examination, 2019-20

Computer Science

Course Id : 11514 **Course Code : SH-CSC-103-GE-1**

Course Title : Computer Fundamentals

Time: 1 Hour 15 Minutes **Full Marks: 25**

The figures in the margin indicate full marks.

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

1. Answer *any five*: 1×5=5

(a) Convert $(9AE \cdot AB)_{16}$ to binary.

(b) Name two system softwares.

(c) What is application software?

(d) What is radix?

(e) Distinguish between RAM and ROM.

(f) Define operating system.

(g) What is Bar-code Reader?

(h) Write full forms of SMPS and ALU.

2. Answer *any two*: 5×2=10

(a) Subtract $(14 \cdot 51)_{10}$ from $(20 \cdot 15)_{10}$ using 2's complement method. Add $(11100010)_2$ with $(1010111)_2$. 3+2=5

(b) Explain different CPU registers briefly.

(c) Describe mobile computing in brief.

(d) Describe Von Neuman Architecture in brief.

3. Answer *any one*: 10×1=10

(a) Explain memory organization in brief.

(b) Describe various Input output devices in brief.

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