

2021

Computer Science

[HONOURS]

(CBCS)

(B.Sc. Third Semester End Examination-2021)

PAPER-GE3T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

Group-A

Answer any FIVE questions of the following: 2x 10=20

1. What is application software?
2. What is 2's complement method?
3. What is python atoms?
4. $(1011.01101)_2 \rightarrow (?)_{16}$
5. What is hexadecimal number?
6. Write down "break" statement in python.
7. What is high level programming language? Give an example
8. Write down the logical operations in python.

(2)

Group-B

Answer any Four questions of the following: 5x4 = 20

1. a) Describe “for” loop in python.
b) Why python is called “interpreted” language? 3+2
2. a) Subtract 1011.01 from 1101.10 using 2’s complement method.
b) What is “indentation” in python? 3+2
3. Describe block diagram of computer. 5
4. What is conditional statement in python? Given an example. 3+2
5. What is function in python? Give an example of Built in function and User defined function. 2+3
6. a) Write a program in python to calculate $S=1+2+3+\dots+n$ using for loop.
b) What is “list” variable in python? 3+2

Group –C

Answer any ONE questions of the following: 10x2 = 20

1. a) Why do we use loop statement in python? Explain each of the loop statement in python, with example. 2+8
b) Explain various type of Number system. Solve the following:
 - (i) $(11011.11)_2 = (?)_{10}$
 - (ii) $(1011)_2 + (111)_2 = (?)_8$
 - (iii) $(1001)_{16} = (?)_2$ 4+6

(3)

2. a) Write a program in python for calculating product of two number using function.
b) Write down “bit wise” operator and “logical” operator in python.
c) Write a program in python for check a number odd or even.
d) What is “arguments” in functions of python.

[3+(2+2)+2+1]
