BACHELOR OF SCIENCE (CBCS-2018 COURSE)
T. Y. B. Sc. Sem-VI :SUMMER- 2022
SUBJECT : PHYSICS : COMPUTATIONAL PHYSICS

Day : Saturday
Date : 9/7/2022

S-18465-2022

Time : 11:00 AM-02:00 PM
Max. Marks : 60

N.B.:

1) All questions are **COMPULSORY.**
2) Figures to the **RIGHT** indicate full marks.
3) Draw neat diagrams **WHEREVER** necessary.

Q. 1 Attempt any **Two** of the following. **(12)**

(a) What is function? How the function is called by value? Explain with suitable example.
(b) Write a program to sum the odd integers from 11 to 18
(c) Write a program to display the integers from 1 to 10. Draw the flowchart.

Q. 2 Attempt any **Two** of the following. **(12)**

(a) What is flowchart? Explain the symbols used in the flowchart.
(b) Write a program to find the roots of a differential equation
(c) Write a program to convert the temperature in degree Celsius to degree Fahrenheit. Draw the flowchart.

Q. 3 Attempt any **Two** of the following. **(12)**

(a) Write a program to convert the decimal number into binary system
(b) Explain the DO WHILE statement with suitable example
(c) What is computer? Draw its labeled block diagram and explain it.

Q. 4 Attempt any **Three** of the following. **(12)**

(a) Define (i) program (ii) command
(b) Write a program to find the percentage of the marks of a student. Draw the flowchart.
(c) Write a program to find factorial of a given number. Draw the flowchart.
(d) Write a program for the addition of two matrices

Q. 5 Attempt any **Four** of the following. **(12)**

(a) Explain the conditional operator.
(b) Write a program to find whether the given number is prime or not.
(c) Explain the pointer with suitable example.
(d) Explain the keywords with suitable example.
(e) Explain the relational operators.
(f) Explain the BREAK statement with suitable example.

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