

BACHELOR OF SCIENCE (CBCS-2018 COURSE)
T. Y. B. Sc. Sem-VI : WINTER :- 2021
SUBJECT: PHYSICS : COMPUTATIONAL PHYSICS

Day : Monday
Date 24-01-2022

W-18465-2021

Time : 10:00 AM-01:00 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.
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Q. 1 Attempt any **Two** of the following. **(12)**

- (a) Explain the constants and variables with suitable example.
- (b) Write a program to display the integers from 21 to 30. Draw the flowchart.
- (c) Write a program to find factorial of a given number. Draw the flowchart.

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

- (a) Write a program to interchange the values of the variables.
- (b) What is computer? Draw its labeled block diagram and explain it.
- (c) Write a program to calculate interest. Draw the flowchart.

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

- (a) What is flowchart? Explain the symbols used in the flowchart.
- (b) Write a program to sum the even integers from 12 to 22
- (c) Explain the ELSE IF statement with suitable example

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

- (a) Write a program to display the array in ascending order
- (b) Write a program to find the largest number in an array.
- (c) Write a program to find the power of a given number. draw the flowchart
- (d) Explain the conditional operator.

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

- (a) Explain the keywords with suitable example.
- (b) Explain C character set.
- (c) Explain the pointer with suitable example.
- (d) Define (i) higher level language (ii) compiler
- (e) Explain the logical operators.
- (f) Explain the FOR statement with suitable example.

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