

211103

M. Sc. (Fourth Semester) Examination, June 2021

PHYSICS

Paper : Third

(Computer Programming and Informatics)

Maximum Marks : 42

Note: Attempt questions of all **three** section as directed. Distribution of marks is given with sections..

Section-A

(Objective Type Questions)

1×7=7

Note : Attempt all questions. Each question carries 1 mark.

1. (i) All key words in C are in :
- (a) Lower case
 - (b) Upper case
 - (c) Camel case
 - (d) None of these
- (ii) Which of the following are unary operator :
- (a) Size of
 - (b) (–)
 - (c) ++
 - (d) All of the above
- (iii) Internet works on which technology :
- (a) Pocket switching
 - (b) Circuit switching
 - (c) Both (a) and (b)
 - (d) None of these

- (iv) Which HTML tag produces the biggest heading :
- (a) <h7>
 - (b) <h9>
 - (c) <h4>
 - (d) <h1>
- (v) The tag used for creating hyper text and hyper media link is :
- (a) <HR>
 - (b)

 - (c) <A>
 - (d) <PRE>
- (vi) A set of rules that governs data communication :
- (a) Protocols
 - (b) Standards
 - (c) RFC's
 - (d) None of these
- (vii) The topology with highest reliability is :
- (a) Bus topology
 - (b) Star topology
 - (c) Ring topology
 - (d) Mesh topology

Section-B

(Short Answer Type Questions)

5×2=10

Note : Attempt all questions. One question from each unit is compulsory. Each question carries 2 marks.

Unit-I

2. Define the importance of structured programming with suitable example.

Or

Describe the structure of a C-program with example.

Unit-II

3. Explain the use of switch statement with suitable example.

Or

Write a program to find greatest number amongs given three numbers.

Unit-III

4. Define the calling of function by value and by reference with example.

Or

Write a program to find a factorial of a given number using recursion.

Unit-IV

5. Explain the form URL and its types and uses.

Or

Explain the various types of networks.

Unit-V

6. Define the search engine and its types.

Or

Explain the ordered and unordered list tags with example.

Section-C

(Long Answer Type Questions)

5×5=25

Note : Attempt all questions. One question from each unit is compulsory. Each question carries 5 marks.

Unit-I

7. Define the various operators used in a C programs with example.

Or

Explain various data types used in C-program with example.

Unit-II

8. Write a program to print prime numbers from 1 to 100.

Or

Explain control statement used in C-program with suitable example.

Unit-III

9. Write a program to print transpose of matrix with help of arrays.

Or

Define the various string handling function with example.

Unit-IV

10. Describe the importance of internet in today world also define its types.

Or

Explain the Internet Protocol (IP) address and its category.

Unit-V

11. Write short notes on : (any **two**)

- (a) tag
- (b) Idea about HTTP
- (c) Anchor tags of used
- (d) Email and its uses