

Roll No : .....

Total No. of Questions : 10 ]

[ Total No. of Printed Pages : 2

# **BPF-2229**

**M.Sc. (Final) Examination, 2022**

**COMPUTER SCIENCE**

Paper - MCS-205

**(Web Application Development)**

*Time : 3 Hours ]*

*[ Maximum Marks : 100*

**Note :-** Attempt *five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

## **Unit-I**

1. (a) Explain .net architecture.  
(b) Explain the structure of C# program. 10,10
2. (a) Describe CLR. 10,10  
(b) Explain boxing and unboxing. 10,10

## **Unit-II**

3. (a) Give an example of C# properties.  
(b) Explain the use of interface in C#. 10,10
4. What are Delegates ? Explain the use of delegates in C# with example. 20

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### Unit-III

5. (a) Explain postback in pages of ASP.Net. 5  
(b) Explain the following web controls :  
(i) Button  
(ii) Textbox  
(iii) Label 15
6. Explain required field, range and compare validation controls. 20

### Unit-IV

7. Give overview of ADO.Net. Also write the steps of database connectivity. 20
8. Explain the difference between accessing data using datasets and datareader with example. 20

### Unit-V

9. (a) Give an example of Data Caching.  
(b) Explain the use of masterpage in a website. 10,10
10. What is Tracing ? Explain the difference between page-level and application-level tracing. 20