

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)  
**BSc DEGREE EXAMINATION MAY 2018**  
(Fifth Semester)

Branch - **COMPUTER SCIENCE**

**C# PROGRAMMING**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks (10 x 2 = 20)

- 1 What is CLR?
- 2 List out the rules for identifiers.
- 3 Write the general form of method declaration.
- 4 Define a Structure.
- 5 What is Copy Constructor?
- 6 What is method overriding?
- 7 Define: Delegate.
- 8 State the purpose of Write line method.
- 9 What is thread pooling?
- 10 List out the components of Microsoft visual studio 2005 IDE.

**SECTION - B (25 Marks!)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

11a Explain the data types in C#.

OR

b Explain the types of operators in C#.

12 a Write a C# program to illustrate method overloading.

OR

b Explain the five string class methods with example.

13 a Explain the constructor overloading with example.

OR

b Explain the interface with example.

14 a Write a C# program for creating and implementing a delegate.

OR

b Explain the methods for formatted output.

15 a Write a C# program for synchronizing threads.

OR

b Explain the procedure for creating and running a WinApp windows application.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Explain the decision making and looping statements with program example.
- 17 Explain the following with example:  
(a) Pass by Value (b) Pass by Reference
- 18 Explain the multilevel and hierarchical inheritance with example.
- 19 Explain the exception handling mechanism with example.
- 20 Discuss about creating and starting a thread with example.