

S.Y. B. SC. (Computer Science) SEM –III (CBCS - 2016 COURSE) :
WINTER - 2018

SUBJECT: OBJECT ORIENTED PROGRAMMING WITH C++

Day: Thursday
Date: 11/10/2018

Time: 11.00 AM TO 02.00 PM
Max. Marks: 60

W-2018-0912

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Attempt **ANY TWO** of the following: **(12)**

- a) Describe various types of constructor.
- b) Write a C++ program to accept and display 10 student records.
- c) Elaborate the compile time and run-time polymorphism.

Q.2 Attempt **ANY TWO** of the following: **(12)**

- a) Write a C++ program to show the usage of copy constructor.
- b) What is pointer to object? Explain with an example.
- c) Describe function prototyping with an example.

Q.3 Attempt **ANY TWO** of the following: **(12)**

- a) Compare and contrast features of C and C++.
- b) Illustrate function overloading with an example.
- c) Differentiate between Procedure Oriented and Object Oriented Programming.

Q.4 Attempt **ANY THREE** of the following: **(12)**

- a) What are Static data member? Explain with an example.
- b) What is friend function? State its features.
- c) Discuss different kinds of access modifiers.
- d) Write a C Program to overload ++ and -- unary operators.

Q.5 Attempt **ANY FOUR** of the following: **(12)**

- a) What is Inline function? Give syntax.
- b) Define 'this' pointer? Write steps to invoke an object using this pointer.
- c) Define – Inheritance and Abstract Class.
- d) State rules for overloading an operator.
- e) Explain various C++ stream classes.
- f) What is pure virtual function? Give its syntax.

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