



# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE**

**SECOND SEMESTER – APRIL 2022**

**UCS 2501 – OBJECT ORIENTED PROGRAMMING USING C++**

**(21 BATCH ONLY)**

Date: 18-06-2022

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

## SECTION – A

**Answer ALL the Questions**

**(5 x 1 = 5 Marks)**

**1.**

a)	Define identifiers. State the rules for naming the identifiers.	K1	CO1
b)	What is class? Write its structure.	K1	CO1
c)	Define constructor. Mention its features.	K1	CO1
d)	State the use of this pointer.	K1	CO1
e)	Define file. Mention its basic operations.	K1	CO1

**Choose the correct answer  
Marks)**

**(5 x 1 = 5**

**2.**

a)	_____ data type to indicate the function does not return a value. i. Static ii. Main iii. Public iv. Void	K1	CO1
b)	Where does the object is created? i. Class ii. Constructor iii. Destructors\\ iv. Attributes	K1	CO1
c)	Which is the correct example of a dereferencing operator? i. ++ ii. — iii.* iv.+	K1	CO1
d)	Inheritance allow in C++ Program? i. Class Re-usability ii. Creating a hierarchy of classes iii. Extendibility iv. All of the above	K1	CO1
e)	By default, all the files in C++ are opened in _____ mode. i. Text ii. Binary iii. ISCII iv.VTC	K1	CO1

**3. Fill in the blanks**

**(5 x 1 = 5 Marks)**

a)	The modulus operator uses ___ character.	K2	CO1
b)	_____ function is used to access the private members of a class	K2	CO1

c)	_____ deletes the object created by constructor	K2	CO1
d)	_____ is referred to as same name in multiple forms	K2	CO1
e)	_____ header file is required to use file I/O operations	K2	CO1
<b>4.</b>	<b>Answer ALL the questions in one or two sentences.</b>	<b>( 5 x 1 = 5 Marks)</b>	
a)	Keywords cannot be used as identifiers	K2	CO1
b)	Functions having different names and different parameters is called function overloading	K2	CO1
c)	++ is a binary operator	K2	CO1
d)	Protected members cannot be inherited.	K2	CO1
e)	fstream is used to create a stream that performs both input and output operations in C++ file handling.	K2	CO1

**SECTION – B**

**Answer any TWO of the following Questions (2 x 10 = 20 Marks)**

<b>5.</b>	Illustrate the data types of C++.	K3	CO2
<b>6.</b>	Construct a C++ program to explain the concept of friend function. Mention its features.	K3	CO2
<b>7.</b>	Construct a C++ program for defining member functions outside and inside a class,	K3	CO2
<b>8.</b>	Illustrate the hybrid inheritance with an example.	K3	CO2

**SECTION C**

**Answer any TWO of the following Questions (2 x 10 = 20 Marks)**

<b>9.</b>	Illustrate the basic concepts of oops.	K4	CO3
<b>10.</b>	Explain constructor overloading with example.	K4	CO3
<b>11.</b>	Illustrate the various modes of operations of files.	K4	CO3
<b>12.</b>	Explain the functions for manipulating pointers. Give example.	K4	CO3

**SECTION – D**

**Answer any ONE Question (1 x 20 = 20 Marks)**

<b>13.</b>	Explain function overloading with example .(any 4)	K5	CO4
<b>14.</b>	Summarize the following with example a. Virtual function b. Pointers to object.	K5	CO4

**SECTION – E**

**Answer any ONE Question (1 x 20 = 20 Marks)**

<b>15.</b>	Explain the following a. exception handling mechanism b. example for exception handling	K6	CO5
<b>16.</b>	Explain binary operator overloading with an example	K6	CO5

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