

Reg. No. : .....

Name : .....

**Second Semester B.Sc./B.C.A. Degree Examination, May 2019**

**Career Related FDP Under CBCSS**

**Group 2(b) – Computer Science/Computer Applications**

**CS 1242/CP 1242 – OBJECT ORIENTED PROGRAMMING**

**(2014 to 2017 Admissions)**

Time : 3 Hours

Max. Marks : 80

**SECTION – A (Very Short Answer Type)**

**one word to maximum of one sentence, Answer all questions.**

1. Explain structured programming.
2. Define class.
3. Describe abstraction.
4. What is the use of ofstream( ) ?
5. Write the syntax for creating a new object for a class.
6. Define constructor.
7. Write a short note on 'delete' operator.
8. What is inheritance?
9. Define pure virtual function.
10. Define Encapsulation.

**(10 × 1 = 10 Marks)**

P.T.O.

## SECTION – B (Short Answer)

Not to exceed one paragraph, answer any **eight** questions. Each question carries 2 marks.

11. What is message passing?
12. Compare structures and classes in C++.
13. Explain scope resolution operator.
14. What is meant by friend function?
15. What are static data members?
16. Define runtime polymorphism.
17. Compare multiple and multilevel inheritance.
18. Describe anonymous objects.
19. Describe early binding.
20. Define abstract class.
21. What is dynamic objects?
22. How are multiple catch blocks defined?

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### SECTION – C (Short Essay)

Not to exceed 120 words, answer any **six** questions. Each question carries **four** marks.

23. How reusability is achieved in Object Oriented programming?
24. Write a C++ program to sort a set of numbers in ascending order.
25. Explain the use of 'this' pointer with example.
26. What is virtual destructor? Explain with example.
27. Explain copy constructor with example.
28. Explain access modifiers in detail.
29. Differentiate base class and derived class.
30. Explain virtual base class with example.
31. What do you mean by pointers to derived class objects? Give example.

**(6 × 4 = 24 Marks)**

### SECTION – D (Long Essay)

Answer any **two** questions. Each question carries **15** marks.

32. Explain the key concepts in Object Oriented Programming.
33. (a) Explain '+' operator overloading with example.  
(b) Explain type conversion with example.
34. Explain public, private and protected inheritance with suitable example.
35. Explain exception handling with examples.

**(2 × 15 = 30 Marks)**



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Second Semester B.Sc./B.C.A. Degree Examination, July 2017  
Career Related FDP under CBCSS

Group 2(b)

COMPUTER SCIENCE/COMPUTER APPLICATIONS

Core Course

CS 1242/CP 1242 : Object Oriented Programming  
(2014 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A  
(Very Short Answer)

One word to maximum of one sentence. Answer all questions : (10×1=10 Marks)

1. What are dynamic objects ?
2. What are destructors ?
3. What are the exceptions ?
4. What is meant by early binding ?
5. What are the static members ?
6. What is encapsulation ?
7. What are the objects ?
8. What is inheritance ?
9. What are dynamic objects ?
10. What is abstraction ?

SECTION – B  
(Short Answer)

Not to exceed one paragraph. Answer any eight questions. Each question carries two marks. (8×2=16 Marks)

11. What is the general structure of C++ programmes ?
12. What is reference variable ?
13. What are default arguments ? Give an example.
14. What is the use of new operator ?

P.T.O.

15. What is meant by copy constructor ?
16. What is meant by EOF ?
17. What are inline functions ?
18. What are the use of :: operators ?
19. What are the advantageous of C++ over C ?
20. What is recursive function ?
21. Why static members are known as class variables ?
22. Explain the concept of object oriented programming.

**SECTION - C**  
**(Short Essay)**

**Not to exceed one paragraph. Answer any six questions. Each question carries four marks. (6×4=24 Marks)**

23. Explain insertion and extraction operators in C++ with example.
24. What do you mean by reference variables ?
25. Explain derived class in C++.
26. Differentiate between structure and class.
27. Compare call by value and call by reference with suitable example.
28. Explain polymorphism with suitable programme.
29. Explain function overloading with example.
30. Differentiate early binding and late binding with examples.
31. Explain the concept of friend function with program.

**SECTION - D**  
**(Long Essay)**

**Not to exceed one paragraph. Answer any two questions. Each question carries fifteen marks. (2×15=30 Marks)**

32. Write a C++ program to find the sum of two matrices by operator overloading.
33. What are the different type of inheritance in C++ ? Explain each one with suitable examples.
34. Explain how polymorphism is achieved at compile time and run time.
35. Write a program containing a possible exception. Use a try block to throw it and a catch block to handle it properly.

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Name : .....

Second Semester B.C.A. Degree Examination, May 2019

Career related FDP under CBCSS

Core Course

CP 1242 — OBJECT ORIENTED PROGRAMMING

(2018 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Very short answer type. One word to maximum of one sentence, Answer all questions

1. What is *macro*?
2. What do you mean by `<iostream,h>`?
3. What do you mean by typecasting?
4. What is *polymorphism*?
5. What do you mean by *object code*?
6. What is *header file*?
7. What do you mean by an array?

P.T.O.

8. Write the names of two C++ keywords.
9. What is binding?
10. What do you know about data hiding?

(10 × 1 = 10)

### SECTION – B

Short answers Not to exceed one paragraph. Answer any **eight** questions, question carries 2 marks

11. Write C++ program to check the given number is odd.
12. What do you mean by message passing?
13. Write a short paragraph on data abstraction.
14. Write a C++ program to compute the sum of first N natural numbers.
15. What do you mean by destructor?
16. What do you know about *function prototype*?
17. Write down the structure of a C++ program.
18. Explain the concept of bottom- tip approach.
19. What do you mean by logical error?
20. Write a short note on the benefits of OOP.
21. Write a note on C++ data types.
22. What is inline function? Explain.

### SECTION - C

Short essay Not to exceed 120 words. Answer any six questions, Each question carries 4 marks.

3. Write a paragraph on exception handling in C++.
4. What do you mean by *constructor*? Explain with an example.
5. Explain the concept of multilevel inheritance with the support of an example.
6. Write C++ program to compute the distance between two points.
7. Write a C++ program to demonstrate class.
8. What do you mean by this pointer? Explain.
9. What do you mean by *friend function*? Explain.
10. What do you mean by *operator overloading*? Explain with an example.
11. Write a C++ program to find the transpose of a matrix.

(6 × 4 = 24 Marks)

### SECTION - D

Answer any two questions. Each question carries 15 marks.

12. Compare the features of Procedure Oriented Programming with those of Object Oriented Programming.
13. Explain the concept of inheritance in detail with examples.
14. Write a C++ program to compute the value of  $nCr$ , Where  $nCr = \frac{n!}{r!(n-r)!}$
15. Explain the concept of dynamic memory allocation by using *new* and *delete* operators.

(2 × 15 = 30 Marks)