

QP CODE: 19101909



Reg No	
Name	

B.Sc./BCA DEGREE (CBCS) EXAMINATION, MAY 2019

Second Semester

Core Course - CS2CRT06 - OBJECT ORIENTED PROGRAMMING USING C++

(Common for B.Sc Computer Applications Model III Triple Main, B.Sc Computer Science Model III, B.Sc Information Technology Model III, Bachelor of Computer Application)

2017 ADMISSION ONWARDS

E27BCBCF

Maximum Marks: 80

Time: 3 Hours

Part A

Answer any ten questions.

Each question carries 2 marks.

- 1. Define structured programming.
- 2. If a=5; b=++a; What will be the value of a and b?
- 3. What is the difference between ordinary functions & member functions?
- 4. Explain the memory allocation of class data member and member function.
- 5. What is a friend class?
- 6. Write the general form of defining a constructor in a derived class?
- 7. What is constructor overloading?
- 8. What is the syntax for defining a derived class in inheritance?
- 9. What is abstract class?
- 10. What is use of pure virtual function?
- 11. What is file stream?
- 12. What are the different file pointers?

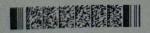
 $(10 \times 2 = 20)$

Part B

Answer any six questions.

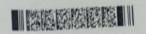
Each question carries 5 marks.

13. What is the advantage of reference variable?



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Turn Over



- 14. Explain inline function.
- 15. What are static data members and static member function? Explain.
- 16. Explain destructors.
- 17. Write a program to overload binary operator using friend function.
- 18. Give an example for multi-level inheritance.
- 19. Explain constructors in derived class.
- 20. Write a program to print address of an object using this pointer.
- 21. Write a note on unformatted I/O operation.

 $(6 \times 5 = 30)$

Part C

Answer any two questions. Each question carries 15 marks.

- 22. a. Explain difference between call by reference and call by value method of function call with
 - b. What is function overloading explain with example and valid syntax?
- 23. (a) What is array of objects?
 - (b) Write a program to find the difference of two complex numbers using friend function?
- 24. With the help of example, explain the difference between overloading an operator using member function and friend function.
- 25. (a) What is inheritance, explain different types of inheritance?
 - (b) How can you pass parameters to the constructors of base classes in multiple inheritance?

 $(2 \times 15 = 30)$

