श्री जैन (पी.जी.) कॉलेज, बीकानेर

BC - 335

BCA (Part-I) Examination, 2018 (PROGRAMMING IN C++)

Paper-BCA-103

Time allowed: Three hours

Maximum Marks: 70

Shri Jain P G College, Bikaner Section A

(Marks $2 \times 10 = 20$)

Answer all Ten questions (Answer limit 50 words). Each question carries 2 marks.

Section B

(Marks $4 \times 5 = 20$)

Answer all five questions. Each question has internal choice (Answer limit 200 words). Each question carries 4 marks.

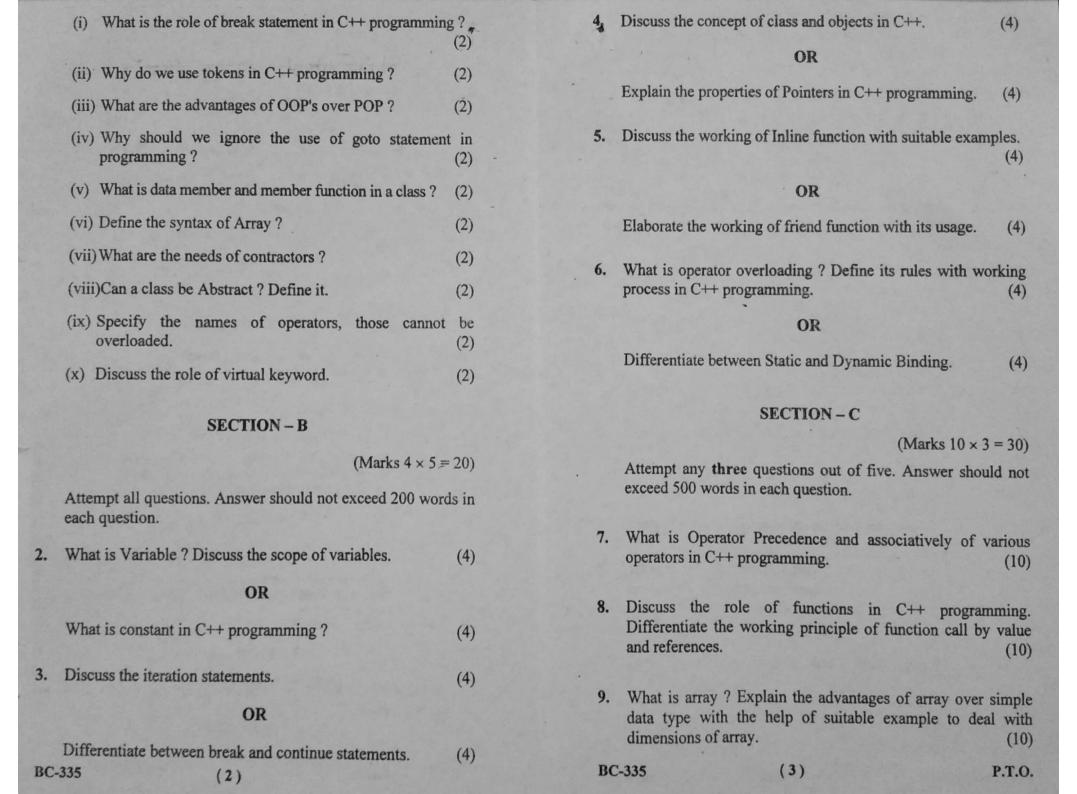
Section C

(Marks $10 \times 3 = 30$)

Answer any three questions out of five. (Answer limit 500 words). Each question carries 10 marks.

SECTION - A

1. Attempt all questions. Answer should not exceed 50 words in each question.



- 10. What is inheritance? How it provides the base for reusability.

 Differentiate multilevel and multiple inheritance, with the help of suitable example.

 (10)
- 11. What is Polymorphism? Discuss various forms of Polymorphism with working process in C++ programming. (10)

BC-380

B.C.A. (Part-I) Examination, 2019

(PROGRAMMING IN C++)

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Section - A

 $(2\times10=20)$

Answer all Ten questions (Answer limit 50 words). Each question carries 2 marks.

Section - B

 $(4 \times 5 = 20)$

Answer all Five questions. Each question has internal choice (Answer limit 200 words). Each question carries 4 marks.

Section - C

 $(10\times3=30)$

Answer any Three questions out of five. (Answer limit 500 words). Each question carries 10 marks.

Section - A

Attempt all questions. Answer should not exceed 50 words in each question.

- 1. (i) Explain the concept of encapsulation.
 - (ii) What do you mean by character set?
 - (iii) Differentiate between "call by value" and "call by reference".
 - (iv) Differentiate between "Array and Structures".
 - (v) What do you mean by Dynamic Array?
 - (vi) What is the role of pointers in programming language?
 - (vii) Define "inline functions".
 - (viii) How destructor works in C++?
 - (ix) Explain the concept of Operator overloading.
 - (x) What do you mean by Virtual Function?

Section - B

Attempt all questions. Answer should not exceed 200 words in each question.

2. Differentiate between procedural and object oriented programming language.

OR

What do you mean by Data Type in C++? List various data types along with their size and range.

3. How "goto" is different from "break & continue" in C++?

OR

List various types of loops used in C++. Explain the working of "for" loop.

4. Explain the concept of Class. How it is different from Structure?

OR

Define Array. How static array is different from dynamic array?

5. What is the difference between inline function and friend function?

OR

List various types of inheritance. Explain any one of them.

6. Differentiate between function overloading and operator overloading.

OR

Make a comparative study between virtual function and virtual class.

Section - C

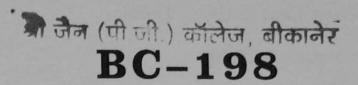
Attempt any three questions out of five. Answer should not exceed 500 words in each question.

- 7. List different types of Operators in C++ along with their precedence and associativity.
- 8. Explain the concept of recursion with help of a program to calculate the factorial of any given number.
- 9. Explain how data is stored in the memory in case of Array. Write a program to calculate the table of "n" number using array.
- 10. What do you mean by reusability in C++? Write a program to explain the concept of multilevel inheritance.
- 11. Define polymorphism. Write a program to explain the concept of friend function.

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Total No. of Questions: 11]

[Total No. of Printed Pages: 3



B.C.A. (Part-I) Examination, 2022 PROGRAMMING IN C++

Paper - BCA-103

Time: 3 Hours]

[Maximum Marks: 70

Section-A

(Marks : $2 \times 10 = 20$)

Note: Answer all ten questions (Answer limit 50 words). Each question carries 2 marks.

Section-B

 $(Marks: 4 \times 5 = 20)$

Note: Answer all *five* questions. Each question has internal choice (Answer limit 50 words). Each question carries 4 marks.

Section-C

(Marks : $10 \times 3 = 30$)

Note: Answer any three questions out of five (Answer limit 500 words). Each question carries 10 marks.

Section-A

- 1. (i) What is Token? Explain.
 - (ii) What is data abstraction? Explain.
 - (iii) Explain goto statement in C++.
 - (iv) What is recursive function? Explain.

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(1)

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- (v) Explain class and object.
- (vi) What is Array of pointer? Explain.
- (vii) What is Abstract Class in C++? Explain.
- (viii) What is Constructor? Explain.
- (ix) What is Operator Overloading? Explain.
- (x) Explain features of C++ 11.

Section-B

2. Explain concept of object oriented programming.

Or

What is type conversion? Explain types of type conversions in C++.

3. What is function overloading? Explain it with suitable example.

Or

Differentiate Pass by Value and Pass by Reference with suitable example.

4. Write a program to check a given string is palindrome or not palindrome.

Or

Explain instance variables and member function of a class using suitable example.

5. What is method overriding? Explain with suitable example.

Or

What is Copy Constructor? Explain with suitable example.

6. Differentiate Compile time and Run time polymorphism.

Or

Write a program to overload Unary++ operator using friend function.

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Section-C

- 7. Explain the following with suitable example:
 - (a) Dynamic Binding
 - (b) Constants
 - (c) Scope of Variable
 - (d) Conditional Operator
 - (e) Cascading of input and output operator
- 8. Write a program using recursive function to find out factorial of a given number.
- 9. (a) Write a program for matrix multiplication.
 - (b) Write a program using class and object to calculate total marks and percentage of a student.
- 10. (a) What is multipath inheritance? Explain with suitable example.
 - (b) Explain constructor invocation in inheritance.
- 11. What is Template? Explain Function template and Class template with suitable example.