

Roll No. ....

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**B. A./B. Com./B. Sc. (Part II)**

**EXAMINATION, 2019**

(New Course)

(Vocational Course)

**COMPUTER APPLICATION**

Paper Third

**(Object Oriented Programming with C++ OOPs)**

Time : Three Hours ] [ Maximum Marks : { B.A. : 25  
B.Com./B.Sc. : 50

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

**Section—A**

**(Short Answer Type Questions)**

Note : For B. A. students attempt Part (A) to (C) questions and each questions carries 3 marks. For B. Com./B. Sc. students attempt Part (A) to (F) and each question carries 3 marks.

1. (A) What are the element of object oriented programming ?

(A-36) P. T. O.

- (B) What are the difference between static binding and late binding ?
- (C) What are variables ? List C++ rules for variables naming.
- (D) What do you understand by constructor ? Define it.
- (E) What is file stream ? Define the features of I/O stream.
- (F) Write syntax for the following statements :
  - (i) This pointer
  - (ii) Scope the resolution operator
  - (iii) Derived class

**Section—B**

**(Long Answer Type Questions)**

Note : Attempt any two questions. For B. A. students each question carries 4 marks and for B. Com./B. Sc. students each question carries 8 marks.

- 2. (a) What is operator in C++ ? Define any four types of operator. <http://www.csjmuonline.com>
- (b) Define derived data type using in C++.
- 3. What is friend function ? What is the role of friend function in OOPs ? Explain it.
- 4. (a) What is an Array ? Explain the types of array.
- (b) Write program in C++ input 3 × 3 matrix and display the matrix in transpose form.
- 5. (a) What do you understand by Access Specifier ?

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- (b) Write program in C++ input any No. Check input No. is perfect No. or not? (Ex : 6 is perfect No. its factor 1, 2, 3 and sum is 6.)

**Section—C**

**(Long Answer Type Questions)**

**Note :** Attempt any *two* questions. For B. A. students each question carries 4 marks and for B. Com./B. Sc. students each question carries 8 marks.

6. (a) What is virtual base class? Define it.
- (b) What is constructor? Define parameterized constructor with example.
7. What do you mean by polymorphism? How do achieve runtime polymorphism?
8. (a) What is file mode? Describe various file mode.
- (b) What do you mean by constructor function? How can use in file stream?
9. Write short notes on the following :
  - (a) Call by value and Call by reference
  - (b) Single inheritance

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