

206/236-A

B.C.A. (Part-II) EXAMINATION – 2017

(Faculty of Science)
(Three-Year Scheme of 10+2+3 Pattern)

OBJECT ORIENTED PROGRAMMING CONCEPTS (Through C++)

Time Allowed: Three Hours

Maximum Marks: 100

Answers of **all** the questions (Short answer as well as descriptive) are to be given in the main answer-book only. Answers of Short answer type questions must be given in sequential order. Similarly all the parts of one question of descriptive part should be answered at one place in the answer-book. One complete question should not be answered at different places in the answer-book.

Write your roll number on question paper before start writing answers of questions

Question paper consists of three parts.
All THREE parts are compulsory

Part - I (very short answer) consists 10 questions of two marks each with two questions from each unit. Maximum limit for each question is up to 40 words.

Part - II (short answer) consists 5 questions of four marks each with one question from each unit. Maximum limit for each question is up to 80 words.

Part - III (Long answer) consists 5 questions of twelve marks each with one question from each unit with internal choice.

Part – I

Attempt all questions. Each question carries 2 marks.

10 x 2=20

1. (i) What are objects?
- (ii) What is class?
- (iii) What is data abstraction?
- (iv) What is token?
- (v) What are keywords?
- (vi) What are data members and members function?
- (vii) Define inline function.

- (viii) What is derived class?
- (ix) What is file?
- (x) Define templates.

Part – II

Attempt all questions. Each question carries 4 marks.

- 2. What is functional programming? 4
- 3. Define pointer with suitable example? 4
- 4. What is friend function? Write the syntax of friend function. 4
- 5. Write the short notes on virtual base class? 4
- 6. What are streams? 4

Part – III

- 7. Define OOP's describe characteristics of OOP's. 12

OR

Describe object and class concept in detail. 12

- 8. Describe array in C++ in detail? 12

OR

What are operators? Explain its types. 12

- 9. What is constructor? Explain various types of constructors? 12

OR

Write short notes on:

- a. Member function 12
- b. This pointer

- 10. Explain the concept of polymorphism in detail 12

OR

- Define inheritance? Explain various types of inheritance? 12
- 11 Define file system in C++. Describe the basic operations of file system with suitable example. 12
- OR**
- Define exception handling? Describe exception handling with suitable example. 12

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