

B.SC. (INFORMATION TECHNOLOGY) - II THIRD SEMESTER (OLD)
BScIT231 - PAPER-I : OBJECT ORIENTED PROGRAMMING WITH C++

P. Pages : 2

Time : Three Hours



GUG/W/18/1435

Max. Marks : 80

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- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data wherever necessary.
 3. Avoid vague answer and write specific points/answers related to questions.

1. EITHER :-

- a) Explain the control statements in detail with an examples. **8**
- b) Explain Inline function? How it is different from normal function? **8**

OR

- c) What is function overloading? Explain in detail with an example. **8**
- d) What is array? Explain different types of array with examples. **8**

2. EITHER :-

- a) How to define member function inside and outside a class? Explain its with suitable example. **8**
- b) Explain the characteristics of OOPs in detail. **8**

OR

- c) Explain the following. **8**
 - 1) Array of objects
 - 2) Objects as function Argument
- d) Write a program to overload unary '+' and '-' operator. **8**

3. EITHER :-

- a) What is constructor? Compare constructor with normal member function using suitable example. **8**
- b) What is Parameterized constructor? Explain with help of example. **8**

OR

- c) Explain Inheritance? Explain types of inheritance with example. **8**
- d) Differentiate between constructor and destructor. **8**

4. EITHER :-

- a) Explain the following **8**
 - i) 'New' operator
 - ii) 'Delete operator
- b) What are pure virtual functions? How do they differ from normal virtual functions? **8**

OR

- c) Explain the methods for opening & closing file in file handling. **8**
- d) Explain command line argument with suitable example. **8**

5. Solve all the questions.

- a) What are manipulators? Explain. **4**
- b) Differentiate between procedural programming & object oriented programming. **4**
- c) Explain the multiple constructor in detail. **4**
- d) Explain the error handling in brief. **4**
