

2016

M.Sc.

3rd Semester Examination

**APPLIED MATHEMATICS WITH OCEANOLOGY
AND
COMPUTER PROGRAMMING**

PAPER—MTM-306 (Unit-I)

Full Marks : 25

Time : 1 Hour

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

[Object Oriented Programming with C++]

Answer Q. No. 1 and any two from the rest.

1. Answer any two questions of the following : 2×2
- (a) What do you mean by object ?
 - (b) Explain : data abstraction and encapsulation.

(Turn Over)

- (c) What do you mean by polymorphism used in OOP ?
2. (a) Compare procedure oriented programming and object oriented programming. 4
- (b) What do you mean by constructor and destructor ? Explain constructor with an example. 4
3. (a) Write a program in C++ using operator overloading to find first n Fibonacci numbers. 4
- (b) Why inheritance is used in C++ ? What are the advantages of it ? Explain multilevel inheritance. 4
4. (a) Write a program in C++ which will convert all characters of a file into uppercase alphabets. The resultant file will be stored into a new file. The file names must be supplied from command line. 4
- (b) Explain the following functions used in file processing in C++ : fail () and good (). 4

(Internal Assessment : 5 Marks)
