

M.Sc 3rd Semester Examination, 2011

**APPLIED MATHEMATICS WITH OCEANOLOGY
AND COMPUTER PROGRAMMING**

PAPER—MTM-304

(Object Oriented Programming with C++)

Full Marks : 25

Time : 1 hour

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

The figures in the right-hand margin indicate marks

1. Answer any *two* questions : 2 × 2
 - (a) What do you mean by class and object ?
 - (b) What do you mean by inline functions ?
 - (c) Explain the functions `setw ()` and `setfill ()` in C++.

2. What are the differences between object oriented programming and procedural oriented programming ? What are the important features of object oriented programming language ? 5 + 3

3. What do you mean by operator overloading in C++ ? List the advantages of this feature. What are the limitations of operator overloading ? Write a program to generate Fibonacci sequence using overloading of increment operator. 2 + 2 + 1 + 3
4. (a) What do you mean by a file ? How a file can be opened in C++ ? Write the necessary statements. What are the necessary functions used to read and write a character from (to) the file ?
- (b) Write a command line program to read a file from memory and write it to another file in C++. Both the file names are to be supplied from command line. (1 + 1 + 2) + 4

[*Internal Assessment* : 5 Marks]
