

M.Sc. 3rd Semester Examination, 2013

COMPUTER SCIENCE

PAPER—COS-302 (Module 1 & 2)

Full Marks : 50

Time : 2 hours

The figures in the right-hand margin indicate marks

(Object Oriented Programming)

PAPER - 302 (M1)

[Marks : 25]

Answer any two questions

1. (a) What is inline function ? How does it differs from the normal function ?
- (b) What is Constructor ? Explain the role of parameterized dynamic constructor with example. (2 + 3) + (1 + 4)

(Turn Over)

2. (a) What is copy constructor ? When are copy constructor called ?
- (b) Explain the different types of inheritance present in object oriented programming.
(2 + 3) + 5
3. (a) What is array of object ? Explain by a part of programme segment. What is type casting ?
- (b) Justify the following statement—
"Declaration of inline function is actually a request to the compiler from the user."
- (c) What is operator overloading ? "What is the facilities provided for the case binary operator overloading with respect to member function over the friend function."
— Justify.
- (d) What is access specifier ?
(2 + 1) + 2 + (1 + 3) + 1
4. (a) What is binding ? What is classification of binding ?
- (b) What is function 'setw' and 'endl' ? Explain with a suitable programme.

(3)

- (c) What is cascade insertion ? What is function of this keyword ?
- (d) Explain run time polymorphism is support method overhiden. (1+1)+3+(1+1)+3

[*Internal Assessment : 5 Marks*]

(*Advance Java*)

PAPER - 302 (M2)

[*Marks : 25*]

Answer any **four** questions

1. (a) Briefly describe the WRAPPER classes in Java.
- (b) Differentiate between public and friendly access modifier in Java. 3 + 2
2. (a) What is interface ? What is the major difference between interfaces and classes ?

- (b) Illustrate interface with a suitable Java program. 1 + 4
3. What is "Abstract class" in Java ? What conditions must satisfied while using abstract classes ? Explain it with a suitable Java program. 5
4. (a) Explain Final Variable, Methods and Classes.
- (b) What is method overloading ? Explain it with a suitable Java program. 2 + 3
5. (a) What is package ?
- (b) Write down a Java programme explain method overridden.
- (c) What is instance variable. 1 + 3 + 1
6. (a) Explain the difference between this and super keyword.
- (b) What is thread ?
- (c) What is abstract class explain with a part of programme segment ? 2 + 1 + 2

(5)

7. (a) Using command line argument show concatenation of number of string is possible.

(b) What is array of object ?

(c) Why we use object.nent Int ().

here object is class— type variable.

3 + 1 + 1

[*Internal Assessment : 5 Marks*]
