

OBJECT ORIENTED PROGRAMMING

(Common to CSE, IT & CSS)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Explain the following:
 - (a) Inheritance and polymorphism.
 - (b) Dynamic binding and message passing.

- 2 Write a java program that will compute the following series:
 - (a) $1/1+1/2+1/3+\dots+1/n$.
 - (b) $1/1+1/2+1/2^2+1/2^3+\dots+1/2^n$.

- 3
 - (a) Explain about "extends" keywords.
 - (b) What is the mechanism by which a call to an overridden method is resolved at run time? Explain with an example.

- 4
 - (a) Define an interface? Write a program which illustrates the design and implementation of an interface?
 - (b) What are the advantages of packages?

- 5 Write a program to implement the stack operations by handling the exceptions.

- 6 Design a scientific calculator using AWT?

- 7
 - (a) Explain the functionality of JComponent with an example.
 - (b) Differentiate JComponent and JPanel.

- 8 Write about the following:
 - (a) Server socket.
 - (b) Datagram socket.
