

D 42068

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Name.....

Reg. No.....



**FIFTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, DECEMBER 2007**

Chemical Engineering

CH 2K 506 E/PTEE 2K 504 E/PTME 2K 505 E—OBJECT ORIENTED PROGRAMMING

(Common to all Branches)

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

**Part A**

1. (a) Briefly explain the features of Java API.
- (b) Differentiate between Java application program and Applet program.
- (c) How awt and swing differ in Java ?
- (d) Write a graphics program to draw a human face.
- (e) What is a component model ? What are its responsibilities ?
- (f) What are datagrams ? How datagrams are implemented in Java ?
- (g) Explain how RMI feature in Java helps in building distributed applications.
- (h) What is a JAR file ? What are its advantages ?

(8 × 5 = 40 marks)

**Part B**

2. (a) Explain the important features of object oriented programming and how they are incorporated in Java language.

(15 marks)

*Or*

- (b) (i) Explain the life-cycle of an applet with example. (8 marks)
- (ii) Write down the features of JVM. (7 marks)
3. (a) (i) With example, explain any *two* swing components classes in Java. (7 marks)
- (ii) Write notes on *i/o* streams in Java. (8 marks)

*Or*

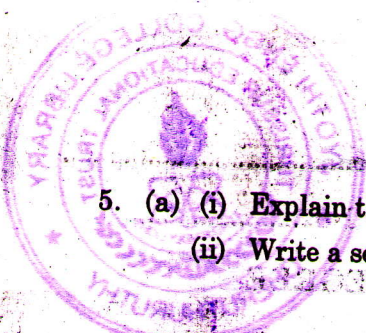
- (b) Discuss how text, audio and video can be used in an application. (15 marks)
4. (a) Discuss in detail about the features of BDK.

*Or*

- (b) Write a server program that will wait for input from a client and return the input to the same machine.

(15 marks)

**Turn over**



5. (a) (i) Explain the life-cycle of a servlet.

(7 marks)

(ii) Write a servlet program to handle HTTP request and send valid responses.

(8 marks)

Or

(b) What is CORBA ? How it can be incorporated with Java ? Discuss it with example.

(15 marks)

[4 × 15 = 60 marks]