

**D 27157**

**(Pages 2)**

**Name**.....

**Reg. No.**.....

**FIFTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, DECEMBER 2006**

**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**

**Part A**

- I. (a) Briefly explain the role of Java Virtual machine.  
(b) Write a java applet program to display a message on the screen and write the html code to test the applet.  
(c) Explain the J Applet class.  
(d) With example explain how input streams are used to read characters from screen.  
(e) What are the steps involved in designing and evaluating the functional requirements of a beam ?  
(f) What is the use of proxy server ?  
(g) What is CORBA ? What are its advantages ?  
(h) What are JAR files ?

**(8 × 5 = 40 marks)**

**Part B**

- II. (a) (i) Explain the different types of inheritance with examples. **(8 marks)**  
(ii) Give an example for user defined exception. **(7 marks)**

*Or*

- (b) (i) Write an applet program to display a text message. **(7 marks)**  
(ii) Explain the use of utility and Math packages giving two examples from each. **(8 marks)**

- III. (a) Write a java program using five swing components.

*Or*

- (b) Discuss in detail, how text, audio and video can be used in an application.

**(15 marks)**

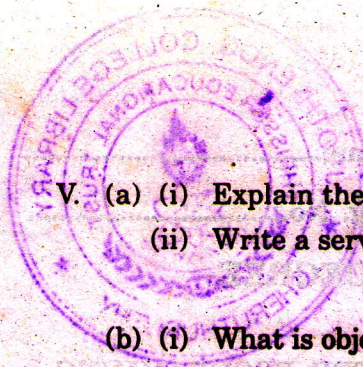
- IV. (a) (i) What is Java Bean ? List its advantages. **(7 marks)**  
(ii) Develop a simple Bean and explain how it can be used in an application. **(8 marks)**

*Or*

- (b) (i) Explain the TCP/IP client sockets in detail. **(7 marks)**  
(ii) Write notes on Datagrams. **(8 marks)**

**Turn over**





- V. (a) (i) Explain the life-cycle of a servlet. (8 marks)  
(ii) Write a servlet program to handle HTTP request and responses. (7 marks)

Or

- (b) (i) What is object serialization? (7 marks)  
(ii) Write a simple client/server application using RMI. (8 marks)

[4 × 15 = 60 marks]