

**Code No: 154BE****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech II Year II Semester Examinations, August/September - 2021****JAVA PROGRAMMING****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75****Answer any five questions  
All questions carry equal marks**

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- 1.a) Analyze the characteristics of object oriented programming concepts?  
b) With suitable program segments examine the usage of „super“ keyword. [8+7]
- 2.a) Does Java support multi way selection statement? Justify your answer.  
b) Generate different forms of inheritance with suitable program segments and real world example classes. [7+8]
- 3.a) Demonstrate about Reading console Input and Writing Console Output.  
b) Explain nested interface with example. [7+8]
- 4.a) What is java package? What is CLASSPATH? Show how to create and access a java package with an example.  
b) Create an interface with at least one method and implement that interface. [7+8]
- 5.a) What is meant by re-throwing exception? Demonstrate with a suitable scenario for this.  
b) Write a program that creates a thread that forces pre-emptive scheduling for lower priority threads. [7+8]
- 6.a) Summarize the differences between thread-based multitasking and process-based multitasking.  
b) Write a program to illustrate user defined exception that checks the internal and external marks if the internal marks are greater than 40 it raise the exception “internal marks are exceed”, if the external marks are greater than 60 exception is raised and display the message the “external marks are exceed.” [7+8]
- 7.a) Develop a program to read a file content and extract words using String Tokenized class. Display the file if it contains the user query term/search key.  
b) Judge the purpose of Stack class. [8+7]
- 8.a) Design a user interface to collect data from the student for admission application using swing components.  
b) What is an adapter class? Demonstrate its role in event handling. [8+7]

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