

Code No: 823AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA III Semester Examinations, October/ November - 2020****JAVA PROGRAMMING****Time: 2 Hours****Max.Marks:75**

Answer any five questions
All questions carry equal marks

1. What are the primary motivation factors for Java language development? How it supports object oriented programming concepts? [15]
2. Define inheritance. What are the benefits of inheritance? Discuss various forms of inheritance with examples. [15]
3. Demonstrate client server communication (exchange of simple hello messages) using socket programming. [15]
4. What are the different states of a thread? Discuss the concept of thread synchronization and Java code segments for this. [15]
- 5.a) Describe the Model-View-Controller architecture.
b) Differentiate between applet and application. [7+8]
- 6.a) Write a Java program to demonstrate method overloading.
b) How memory management is done by Java? [7+8]
- 7.a) What is a nested class? Compare nested class with inner class.
b) How to define a package? How to access a package? [7+8]
8. Discuss the methods in File class for file management. [15]

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