

**Code No: 843AE****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA II Semester Examinations, February - 2021****JAVA PROGRAMMING****Time: 2 hours****Max.Marks:75**

**Answer any five questions**  
**All questions carry equal marks**

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1. Compare and contrast object oriented programming & structured programming. [15]
- 2.a) What is the significance of “this” keyword in object oriented programming?  
b) Differentiate between message and method. [7+8]
- 3.a) What is the difference between an interface and an API? Explain.  
b) Explain about the method overriding with an example. [7+8]
4. Write a program which uses the class defined in another package which takes a matrix and returns determinant of it. [15]
5. What are checked and unchecked exceptions? Explain with example. [15]
6. Explain how synchronization is achieved among threads to access a shared resource. [15]
7. What is an applet? What are the methods that are called by AWT when an applet is initialized and terminated? Explain. [15]
8. Explain J Combo Box and J Tabbed Pane classes. [15]

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