

**R20**

Code No:872AA

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**MCA II Semester Examinations, May - 2022**

**JAVA PROGRAMMING**

**Time: 3 Hours**

**Max.Marks:75**

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

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- 1.a) Illustrate the use of 'this' keyword with an example.  
b) Differentiate between procedural language and OOP. [7+8]
- 2.a) What is the main purpose of Constructor? How to invoke a constructor in JAVA?  
b) Write a java program to illustrate the usage of conditional statements. [8+7]
- 3.a) Explain the creation of packages and accessing a package with sample program.  
b) Write the importance of abstract classes. [8+7]
- 4.a) Illustrate the use of 'super' and 'final' key words in java.  
b) Explain the benefits of inheritance. [8+7]
- 5.a) Explain nested try and final statements in exceptional handling.  
b) Demonstrate the definition and implementation of interface in java. [7+8]
- 6.a) Distinguish between checked and unchecked exceptions.  
b) Demonstrate Java program for array index out of bound and divide by zero exception. [7+8]
- 7.a) Explain the following Layout Managers.  
i) border layout ii) grid bag layout  
b) Write a short note on following:  
i) JFrame ii) Scroll Panes. [8+7]
- 8.a) Explain the life cycle of an applet.  
b) Write the differences between multi-threading and multitasking. [7+8]

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