

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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