R16

[5+5]

Code No: 133BM

7.a

b)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, May/June - 2019 OBJECT ORIENTED PROGRAMMING THROUGH JAVA (Common to CSE, IT)

Time: 3 Hours Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b as sub questions.

PART- A

| | PART- A | | |
|--------|--|-------------------|--|
| | | (25 Marks) | |
| 1.a) | Differentiate between class and object. | [2] | |
| b) | What is meant by ad-hoc polymorphism? | [3] | |
| c) | How to define a package in Java? | [2] | |
| d) | Contrast between abstract class and interface. | [3] | |
| e) | Define exception. | [2] | |
| f) | Differentiate between a thread and a process. | [3] | |
| g) | Which methods of deque enable it to be used as a stack? | [2] | |
| h) | Make a comparison of List, array and ArrayList. | [3] | |
| i) | Give the AWT hierarchy. | [2] | |
| j) | What are the various classes used in creating a swing menu? | [3] | |
| PART-B | | | |
| | | (50 Marks) | |
| 2.a) | What are the responsibilities of an agent? | | |
| b) | What is the purpose of constructor in Java programming? | [5+5] | |
| | OR | | |
| 3. | Define inheritance. What are the benefits of inheritance? What costs are associated with | | |
| | inheritance? How to prevent a class from inheritance? | [10] | |
| 4. | Write a program to demonstrate hierarchical and multiple inheritance using i | nterfaces. | |
| OR | | | |
| 5.a) | Demonstrate ordinal() method of enum. | | |
| b) | What is type wrapper? What is the role of auto boxing? | [5+5] | |
| 6. | Write a program to create three threads in your program and context switch | h among the | |
| | threads using sleep functions. | [10] | |

OR

Write a program with nested try statements for handling exception.

How to create a user defined exception?

| 8. | Write a program to read a file content and extract words using String Tokeniz Display the file if it contains the user query term/search key. OR | er class. |
|-------------|---|-----------------|
| 9.a) b) | Contrast sorted map and navigable map interfaces. What is the purpose of BitSet class? What is the functionality of the following for BitSet class: cardinality(), flip() and intersects() | functions [5+5] |
| 10.a) b) | Illustrate the use of Grid Bag layout. What are the subclasses of JButton class of swing package? OR | [5+5] |
| 11.a) b) | Create a simple applet to display a smiley picture using Graphics class methods. Write a short note on delegation event model. | [5+5] |

---00000----