R13

Code No: 813AQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, June/July - 2018
JAVA PROGRAMMING

Time: 3 Hours   **Max. Marks: 60**

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

Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

5 × 4 Marks = 20

1.a) Give code to demonstrate the use of 'this' keyword.   [4]
  b) How to define and import packages in Java?   [4]
  c) What is the use of HashMap class?   [4]
  d) What is the need of thread synchronization? Give suitable example.   [4]
  e) Differentiate between applet and application programs.   [4]

PART - B

5 × 8 Marks = 40

2. What features of Java makes it a robust language? Explain with illustrations.   [8]

OR

3. Write a program to read a sentence from the user and search for a given string in this sentence. Use String class methods to display the search results.   [8]

4. What is an interface? How does it differ from abstract class? Explain partial implementation of an interface.   [8]

OR

5. Explain various forms of inheritance along with their benefits. Use suitable code segments to support your discussion.   [8]

6. Write a program to demonstrate random access file operations. Consider your class students data in that file.   [8]

OR

7. Make a comparison of client server communication mechanisms – sockets, datagrams with necessary code.   [8]

8. What are the benefits of exception handling? Java uses five keywords for exception handling. Demonstrate these keywords usage.   [8]

OR

9. Write a program to create multiple threads and assign different priorities to them. [8]

10. Describe model-view-controller architecture for application development.   [8]

OR

11. Write a program to handle keyboard events using delegation event model.   [8]

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