

FACULTY OF ENGINEERING & TECHNOLOGY

T.E.(CSE/IT) Examination - DEC – 2014

Programming in Java (Revised)

[Time: Three Hours]

[Max. Marks: 80]

“Please check whether you have got the right question paper.”

- N.B**
- 1) Question No.1 and Question No.6 is compulsory.
 - 2) From each section, attempt any two questions from remaining.
 - 3) Assume suitable data, if necessary
 - 4) Figures to the right indicate full marks.

SECTION A

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|-----------|---|----------|
| Q.1 | A) Attempt any five | 10 |
| | <ol style="list-style-type: none"> 1) What is an abstract class? 2) What are the role of Java compiler and Java Interpreter? 3) What is the purpose of ‘super’ keyword? 4) What do we declare a method or class as ‘final’? 5) What are ‘this’ and ‘super’ keywords. 6) What is synchronization and why is it important? 7) What is JIT [Just-in -Time] compiler? 8) How do we create arrays in Java? | |
| Q.2 | A) With a small program. Explain in detail the steps to write and execute Java program. B) Write a Java program to demonstrate constructor overloading. Also explain it. | 07 08 |
| Q.3 | A) Write and explain various access protections that can be used with package. B) What are various types of errors? Explain exception hierarchy in Java. | 07 08 |
| Q.4 | A) Write in Java program to implement the concept of multithreading. B) Explain five keywords of exception handling mechanism in detail. | 07 08 |
| Q.5 | A) What are wrapper classes? Write some methods of wrapper classes. B) Explain with neat diagram, life cycle of thread. | 07 08 |
| SECTION B | | |
| Q.6 | A) Attempt any five | 10 |
| | <ol style="list-style-type: none"> 1) Define adapter classes 2) What are various types of events in Java? 3) What is the role of Driver Manager in JDBC? 4) Explain in short, client-server Architecture. 5) Define Pipes & filter 6) Write any four differences in Applet & Application 7) List any four methods of window listener interface. 8) What is main difference between AWT & swing? | |
| Q.7 | A) Write and explain a program to demonstrate the concept of ‘passing parameters to applet’. B) Write a Java program to handle mouse Events. | 07 08 |
| Q.8 | A) Write a Java program to demonstrate J Label. J Button & J check Box class. B) Write a program to demonstrate database connectivity and add, update, delete and retrieve records from database using JDBC. | 07 08 |
| Q.9 | A) Draw hierarchy and explain Readers & writers classes B) Explain in detail about ‘sockets’ also write a program using socket. | 07 08 |
| Q.10 | A) With suitable diagram, explain life cycle of Applet. B) Explain various types of JDBC drivers. | 07 08 |