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**SUBJECT CODE NO:- E-295**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**T.E.(CSE/IT) Examination Nov/Dec 2017**  
**Programming in Java**  
**(REVISED)**

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i. Question No.1 and 6 are compulsory.
  - ii. Attempt any two questions from each section.
  - iii. Figures right indicates full marks.
  - iv. Assume suitable data if necessary.

**Section A**

- Q.1 Attempt any five questions. 10
- a) What is String class? Enlist functions of String class.
  - b) What is package? Explain types of packages in java.
  - c) Define the term byte code.
  - d) What is JVM? What it does in java?
  - e) How to set thread priorities in java? Explain with suitable example.
  - f) Explain threading and multithreading in java.
  - g) How to implement interface in java?
  - h) Explain the terms final variable & final methods.
- Q.2 a) Write short notes on i) public ii) void iii) main iv) static 08  
b) Explain constructor and constructor overloading with suitable example. 07
- Q.3 a) Explain why java is evolved? Explain features of java in detail. 08  
b) Explain thread life cycle in detail. 07
- Q.4 a) What is difference between extending and implementing? 07  
b) Write steps for creating & using packages in java. 08
- Q.5 a) How arithmetic exceptions are solved in java. Write a code for arithmetic exception. 07  
b) Give brief introduction of : i) Synchronization ii) Runnable interface 08

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## Section B

- Q.6 Attempt any five questions. 10
- a) What is applet? Explain local & remote applet with suitable diagram.
  - b) What is result set?
  - c) What is container?
  - d) Write four JDBC drives.
  - e) Write applet program to display “Hello world” message.
  - f) What is port? List available ports in system.
  - g) What is object serializable?
  - h) What is SQL?
- Q.7 a) Explain life cycle of applet with suitable diagram. 08  
b) Explain networking classes & interfaces in detail. 07
- Q.8 a) Explain use of select statement in java to display records from employee database. 08  
(Assume suitable fields for employee table.)  
b) Write a java code for file handling. Program will copy contents form one file to another file. 07
- Q.9 a) Draw and explain hierarchy of reader and writers classes. 08  
b) Write a java code to display form components using JButton, JLabel, JTextField. 07
- Q.10 a) Write a java code to insert a record of student into database.(Assume suitable fields for student) 08  
b) Explain following term in brief: i) Pipes ii) filters iii) Event listeners iv) socket 07