

**SUBJECT CODE NO:- P-96**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**T.E.(CSE/IT) Examination May/ June 2017**  
**Programming in Java**  
**(Revised)**

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i) Q.No.1 from section A and Q.No.6 from section B are compulsory.
  - ii) Attempt any two questions from the remaining questions in each section
  - iii) assume suitable data if necessary
  - iv) Figure to the right indicates full marks.

Section A

- |     |   |    |
|-----|---|----|
| Q.1 | Attempt any five of the following   | 10 |
|     | <ul style="list-style-type: none"><li>1) List primitive data types, their size and range</li><li>2) What are objects and references in Java?</li><li>3) Explain the meaning for each keyword of 'Public static void main ( String args[])'</li><li>4) Explain the use of "extends" and "implements"</li><li>5) Justify how exceptions are used for debugging purpose</li><li>6) What are the uses of 'super' keyword in Java?</li><li>7) Compare and contrast between method overloading and method overriding</li><li>8) What is bytecode?</li></ul> |    |
| Q.2 | a) Explain any five features of Java in detail  | 07 |
|     | b) Write a Java program to implement wrapper classes and their methods  | 08 |
| Q.3 | a) What are packages? List some built-in packages in Java. write and explain the steps to create a package and access this in another program   | 07 |
|     | b) What is multiple inheritance? write a program to demonstrate multiple inheritance in Java  | 08 |
| Q.4 | a) Explain five keywords of exception handling mechanism in detail  | 07 |
|     | b) Draw and explain in detail life cycle of a thread .  | 08 |
| Q.5 | a) Write a Java program to create threads using 'Runnable ' interface   | 07 |
|     | b) What are command line arguments? Write a program for finding smaller between two numbers using command line arguments.   | 08 |

Section -B

- |     |   |    |
|-----|---|----|
| Q.6 | Attempt any five of the following   | 10 |
|     | <ul style="list-style-type: none"><li>1) List any four methods of mouse Listener interface</li><li>2) What are 'APPLET' tag and 'PARAM' tag?</li><li>3) A class requires to handle events on menu and checkbox. Which listener should it implement?</li><li>4) Define socket</li><li>5) What is JDBC? List the JDBC drivers</li><li>6) Write any four methods with syntax of the Graphics class</li><li>7) Define Applet. Draw and Label the life cycle of an applet</li><li>8) What are adapter classes?</li></ul> |    |
| Q.7 | a) With one example , explain how to write and execute an applet program  | 07 |
|     | b) Write a program in Java to handle mouse event .  | 08 |
| Q.8 | a) With neat diagram explain the steps to create DSN [ data source name]  | 07 |

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- b) Using interactive input, write a Java program to read three number and display the smallest number 08
- Q.9 a) With suitable diagram, explain the concept of stream 07
- b) Write a Java program to demonstrate menu & menu bars 08
- Q.10 a) Write short note on object serialization and deserialization 07
- b) Write short note on networking classes and interfaces 08