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Code No. : 33003

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**M.C.A. (CBCS) III-Semester Main Examinations, January-2018**

**Object Oriented Programming using JAVA**

Time: 3 hours

Max. Marks: 70

*Note: Answer ALL questions in Part-A and any FIVE from Part-B*

**Part-A (10 × 2 = 20 Marks)**

1. What is constructor?
2. What are the conditional statements in java? write with syntax.
3. Differentiate between the multi-tasking and multi-threading.
4. What is String class in java? list out its methods.
5. What is Gregorian Calendar?
6. Differentiate between array and vector in java.
7. What is File class in java and list out its constructors?
8. Differentiate between Socket and ServerSocket.
9. What is layout manager in java?
10. What is panel in java?

**Part-B (5 × 10 = 50 Marks)**  
**(All sub-questions carry equal marks)**

11. a) Explain about method overriding in java with example.  
b) Explain how to create package in java with example.
12. a) What is Exception? Explain how exceptions are handled in java?  
b) How to implement multi-threading in java?
13. a) What is Iterator? Explain its methods.  
b) Explain how to implement Linked List Class in java with example?
14. a) Write a java program that displays the number of characters, lines, and words in a text file.  
b) Explain about client and server interaction with datagrams in java.
15. a) What is an applet? Describe the different stages of the life cycle of an applet.  
b) What are Listener Interfaces? Illustrate Mouse motion listener interfaces with suitable java program.
16. a) What is BufferedReader? Write a simple program uses BufferedReader to read the character form console and display it.  
b) Explain how to implement thread priorities in java with example?
17. Answer any *two* of the following:
  - a) Explain how to implement Array List in java with example.
  - b) What is datagram? Explain about send and receive methods in datagram.
  - c) Write a java program to create Border Layout with a component in each layout area.

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