B.E. (Information Technology) Fifth Semester (C.B.S.)
Java Programming

P. Pages : 2

Time : Three Hours

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Max. Marks : 80

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Notes : 1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.
8. Assume suitable data whenever necessary.
9. Illustrate your answers whenever necessary with the help of neat sketches.
10. Use of non programmable calculator is permitted.

1. a) Explain features of java programming. **6**

   b) Explain method overloading with example. **5**

   c) Explain the use of this keyword with example. **3**

OR

2. a) Write a short note on command line argument. **5**

   b) Explain garbage collection in Java? **5**

   c) Explain final keyword in java. **4**

3. a) Explain vector class with example. **6**

   b) Write a program in java which will read the string and reverse the string. Do not use reverse library function. **7**

OR

4. a) Write a program in java which will read a string and rewrite it in the alphabetical order. (eg. string should be written as ginrst). **7**

   b) Differentiate string and string buffer class? Give some of its methods. **6**

5. a) What is a package? Explain its type with example. **6**

   b) Define an exception called " No Match" exception that is thrown when string is not equal to "India" write a program that uses this exception. **7**

OR

| **6.** | a) | What is inheritance? Explain its type with example. | **6** |
| | b) | Write a program to search an element in the array. Handle divide by zero, array index and negative size array exception while writing the program. | **7** |

| **7.** | a) | what is thread? Explain it's properties. Explain different ways of creating thread. Give suitable example. | **6** |
| | b) | Write a program to create two thread; one to print add number and another to print even number between 1 to 100. After printing each number thread should stop execution for 2000 m sec. | **7** |

OR

| **8.** | a) | Explain in brief inter thread communication. | **8** |
| | b) | Describe complete life cycle of thread class. | **5** |

| **9.** | a) | What is stream class in java? Explain input and output streams with illustration. | **7** |
| | b) | Write a program to delete only those files whose extension is ·txt in "C:\Java" directory. | **7** |

OR

| **10.** | a) | Write a program in java that reads a text file "one·dat" and copy the contents to another text file "output·date". | **8** |
| | b) | Explain following methods.
i) instanceof
ii) stretfp
iii) native. | **6** |

| **11.** | a) | Write a program to create a swing window and perform addition subtraction & multiplication of two numbers & display result in text field control. | **7** |
| | b) | Explain different layout manager with suitable example. | **6** |

OR

| **12.** | a) | What is applet? Explain life cycle of applet. | **6** |
| | b) | Write a program to input colour and flower name using <Param> tag and display a message "roses are red" using font 12 times new roman Bold. | **7** |

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