

B.E. Computer Technology Sem-V
CT503 - Java Programming

P. Pages : 2

Time : Three Hours



GUG/S/19/1664

Max. Marks : 80

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- Notes :
1. All questions carry equal marks.
 2. Assume suitable data wherever necessary.
 3. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) What are the drawbacks of procedural languages? Explain the need of object oriented programming with suitable example. 8
b) List categories of operators supported in Java. Write a program to implement arithmetic operators in java. 8

OR

2. a) What is type casting? Explain with an example. 8
b) Discuss Inner classes and outer classes with an program. 8
3. a) Explain abstract class and abstract methods with an program. 8
b) State where interfaces are used. Write a program to extend an interface. 8

OR

4. a) Name five standard packages in Java. Write a program to create user defined package. 8
b) Discuss has MoreToken() & NextToken() methods of StringTokenizer class with an program. 8
5. a) Explain exception handling in java. Write a program that include a try block & catch block which processes the arithmetic exception generated by division-by-zero error. 8
b) How multithreading is achieved using Runnable interface? Explain with program code. 8

OR

6. a) State & explain different methods exception handling with an example. 8
b) What are the different types of packages used in Java? Write a program to create user defined package. 8
7. a) Write an applet to receive the value of the parameter from the html file & display it in centered form. 8
b) How do applet differ from an application program? Explain with example. 8

OR

8. a) Write a program to implement button in frame using awt. 8
- b) Write a program to implement MouseListener & MouseMotionListener to handle mouse event. 8
9. a) Explain following with respect to swing, 8
- i) Container ii) Helper classes
- b) List all the layout managers. Write a program to implement grid layout using swings. 8

OR

10. a) Write a program to demonstrate use of JButton & JTextField in java. 8
- b) Write a program to implement JCheckBox in java. 8
