2102020005

Dec.-22-0219

CS-502 Core Java (CSE, IT)

B.Tech. 5th (CBCS)

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question from each Unit. Question no. 9 is compulsory.

UNIT - I

1. What is an operator? Explain the different types of operators used in Java. (10)

2. (a) Describe the different types of data types used in Java. (5)

   (b) What are the differences between the for, while and do-while loops? (5)

UNIT - II

3. What are constructors used for? Can constructors be overloaded? Write a program in support of your answer. (10)

4. (a) What is inheritance? Write a program to access the super class method and instance variable by using super keyword from sub class. (5)

   (b) What is the static method? Explain it by taking suitable example. (5)

UNIT - III

5. Write a program to trap a key which presses on the keyboard and display its name in the test area. (10)

6. (a) Write a program to create some check boxes. When the user clicks on a check box, the selected option text will be displayed in a text area. (5)

   (b) Write short note on following:

   (i) J text filed   (ii) J potion pane. (5)

UNIT - IV

7. What is Package? Discuss the different type of packages. Write a program which depicts how to use the addition class of package pack. (10)

8. (a) What is multithreading? How multithreading is implemented in Java? Explain it by giving a suitable example. (5)

   (b) What is a Layout Manager? Explain the different types of layout manager. (5)

(Compulsory)

9. (a) Is Java a purely objected oriented language or not? Justify your answer.

   (b) What is meant by the adapter class in Java?

   (c) What is a listener interface?

   (d) What is the difference between a class and object?

   (e) What are default layout in a frame?

   (f) What is the difference between throws and throw?

   (g) What is an interface?

   (h) Why do we declare a method or class final?

   (i) What is an applet?

   (j) What is method overriding? (10×2=20)