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Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Sixth Semester

Branch : Computer Science and Engineering

CS 010 602—INTERNET COMPUTING

(New Scheme—2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. What is the difference between thread and process ?
2. What is wrapper classes ? Give two examples.
3. What is the difference between applet and application ?
4. What component positions can use with a Border Layout manager ?
5. What does Class.forName() method do ?

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Compare and contrast abstract class with interface. Why do you use an abstract class ? Why do you use an interface ?
7. Define Inheritance. How does inheritance helps code reusability ?
8. Write significance of each words in *public static void main(string args[])*.
9. What do meant by character streams. Name any four classes in this stream and mention the purposes of each.
10. Write an applet program to display a message 'I am an applet-Welcome'.

(5 × 5 = 25 marks)

Part C

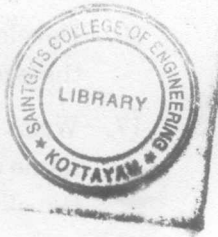
Answer all questions.

Each question carries 12 marks.

11. Explain the terms encapsulation, abstraction and polymorphism.

Or

Turn over



12. Write a java program to add two dates. Define a class Dale with private instance variables *day*, *month*, *year* and a function *add*. Let the function accepts objects of Date class as parameter and return an object of the same type.
13. What is checked and unchecked exceptions Explain with an example the use of *try*, *catch*, *throw*, *throws* and *finally*.

Or

14. What are the different access specifiers of Java ? Describe access control mechanism of java.
15. Write a program to develop an application, which creates two buttons and a label. When button is clicked, display the text associated with it on the label.

Or

16. Develop an applet which displays three checkboxes corresponds to 'Linux', 'Windows', 'Mac'. Capture the event and display the status of each of the check boxes.
17. Write a program to establish socket connection between a client and server. Let the client sends name of a file the to the server. If exists, the server reads the contents of the file and send back it to the client. If not, indicate the client that file doesn't exist.

Or

18. Write a Java program to create two threads. Let one thread outputs numbers 1 to 10 with other output numbers from 10 to 1.
19. Write a program to retrieve an employee record from a database table using EmpNo as the key. Let the database table contains EmpNo, Name, Department and Salary.

Or

20. What are advantages of Servlet over CGI ? Write the purpose `init()`, `service()` and `destroy()` methods of Servlet interface.

(5 × 12 = 60 marks)

