

Register No:

B.TECH DEGREE EXAMINATIONS: APRIL/MAY 2011

Fourth Semester

INFORMATION TECHNOLOGY

U07IT401: Internet and Java Programming

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 1 = 10 Marks)

1. Which of the following is correct syntax for an Abstract class ?
(a) abstract double area() { } (b) abstract double area()
(c) abstract double area(); (d) abstract double area(); { }
2. In the init(ServletConfig) method of Servlet life cycle, what method can be used to access the ServletConfig object ?
(a) getServletInfo() (b) getInitParameters() (c) getServletConfig() (d) getServlet()
3. A class can be converted to a thread by implementing the interface _____
(a) Thread (b) Runnable (c) Package (d) None of the above
4. In order for a source code file, containing the public class Test, to successfully compile, which of the following must be true?
(a) It must have a package statement (b) It must be named Test.java
(c) It must import java.lang (d) It must declare a public class named Test
5. _____ feature is not supported in java
(a) Method overloading (b) Operator overloading (c) interfaces (d) Polymorphism
6. Which of the following are primitive types?
(a) byte (b) string (c) integer (d) float
7. Which of the following can be referenced by this variable?
(a) The instance variables of a class only (b) The methods of a class only
(c) The instance variables and methods of a class (d) All the above
8. Which of the following statements correctly describes an interface?
(a) It's a concrete class (b) It's a superclass
(c) It's a type of abstract class (d) None of the above
9. Which of the following is not a wrapper class?
(a) String (b) Integer (c) Boolean (d) Character

10. Suppose a Panel is added to a Frame and a Button is added to the Panel. If the Frame's font is set to 12-point TimesRoman, the Panel's font is set to point TimesRoman, and the Button's font is not set, what font will be used to display the Button's label?
- (a) 12-point TimesRoman (b) 11-point TimesRoman
(c) 10-point TimesRoman (d) 9-point TimesRoman

PART B (10 x 2 = 20 Marks)

11. What is HTML?
12. What is widening and narrowing in type conversions?
13. What is API? List some of the tools used for developing and running java programs contained in JDK.
14. Mention some of the methods available in StringBuffer Class.
15. Explain the different ways to run an applet program
16. Explain the order of applet initiation.
17. What are the arguments used in the method drawRoundRect() ?
18. List out the methods contained in WindowListener interface.
19. What is RMI?
20. What are datagrams?

PART C (5 x 14 = 70 Marks)

21. a) Describe various Internet Applications with suitable example.

(OR)

- b) (i) Is it possible doing HTTP authentication using CGI? Discuss your view. (7)
(ii) Explain HTML tags with the properties and write a program using that tags. (7)

22. a) (i) Describe the various features of java in detail (9)

(ii) The number in the series

0 1 1 2 3 5..... are called fibonacci series. Write a java program that reads and print first m Fibonacci numbers using any looping structures. (5)

(OR)

- b. (i) How multiple inheritance is achieved in java? Elaborate your answer with examples. (7)
(ii) Explain how exception handling mechanism can be used for debugging a program (7)

23. a) Explain in detail about the various stages involved in the life cycle of thread model.

(OR)

b) Discuss about Serialization and Multithreading concepts in java.

24. a) Explain the graphic methods available in Java.

(OR)

b) Describe in detail about various methods available in Event Listener interfaces.

25. a) (i) Discuss the security features associated with RMI (7)

(ii) Why must classes implement Serialization in order to be written to an Object Output Stream? (7)

(OR)

b) (i) With neat sketch discuss in detail about the various steps in the Life cycle of a Servlet (10)

(ii) Write a brief note on 'Session tracking' (4)
