



**B.E. DEGREE EXAMINATIONS: APRIL 2015**

(Regulation 2009)

Seventh Semester

**ELECTRONICS AND COMMUNICATION ENGINEERING**

ITY105: Internet and Java Programming

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. The server that translates between the numeric IP addresses and the corresponding domain names is
  - a) Web server
  - b) DNS server
  - c) Mail server
  - d) FTP server
2. List the terms not associated with the <FORM> tag
  - a) Text box and Check box
  - b) Radio button and Drop down box
  - c) Action and Method
  - d) Href and Src
3. Constructors
  - i. Have same name as the class itself
  - ii. Do not specify a return type
  - iii. Return the instance of the class itself
  - iv. Do not have variable number of arguments

Which of the following are true?

- a) i, ii, iii
  - b) i, ii, iv
  - c) i, iii, iv
  - d) ii, iii, iv
4. The Java Virtual Machine (JVM) executes the
    - a) Source code
    - b) Machine code
    - c) Byte code
    - d) All of the above
  5. The access modifier 'protected' cannot be accessed within
    - a) Same class
    - b) Subclass in same package
    - c) Non-subclass in other package
    - d) Subclass in other packages
  6. The exception handling mechanism to handle any exception generated within a try block is
    - a) Finally
    - b) Throw



18. What is Enumeration interface? List the methods.
19. How to use the delegation event model?
20. List out the various layouts in arranging the components.

**PART C (5 x 14 = 70 Marks)**

21. a) i. Enumerate the features of ISP? Explain. (7)
- ii. Explain the safety measures in choosing a password? (7)

**(OR)**

- b) i. What are the different types of web sites? Discuss. (4)
- ii. Write a HTML program to create a website for a restaurant. The webpage (10)  
should contain links, tables, forms and images.

22. a) Design a class to represent a bank account. Include the following members:

Data members:

- Name of the depositor
- Account number
- Type of account
- Balance amount in the account

Methods:

- To assign initial values
- To deposit an amount
- To withdraw an amount after checking balance
- To display the name and balance

**(OR)**

- b) Create a class **Employee** with eno, ename and monthly salary. If the monthly salary is not positive, set it to 0.0. Write a Java program to create two **Employee** objects and display each object's yearly salary. Then give each employee a 10% raise and display each employee's yearly salary again.

23. a) i. What is an Exception? What is the purpose of try and catch blocks? (4)
- ii. Define an exception called 'NoMatchException' that is thrown when a string is (10)  
not equal to "India". Write a Java program that uses this exception and display  
appropriate information.

**(OR)**

b) Write a Java program to calculate the roots of a quadratic equation using interfaces. The interface and implementation are in different packages.

24. a) How to achieve interthread communication in threads? Explain with an example.

**(OR)**

b) i. Write a Java program to copy the contents of one file into another and display the number of characters. Use character streams and handle the exceptions. (7)

ii. Write a Java program to concatenate the two given files and store it in a new file. (7)

25. a) i. Summarize the steps to convert a Java program into an applet. (4)

ii. Write an applet to find sum, reverse and product of individual digits of a given number and display its output on screen. (10)

**(OR)**

b) What is a control? What are the various controls in an AWT? Explain any 3 controls in detail.

\*\*\*\*\*