VU Virtual University	**MID TERM EXAMINATION** **SEMESTER FALL 2005** **CS101-INTRODCUTION TO COMPUTING [Session-3]**	**Total Marks:50** **Duration: 60 min**

StudentID/LoginID	
Name	
PVC Name/Code	
Date	**16 - 1 - 2006**

Maximum Time Allowed: (1 Hour)

Please read the following instructions carefully before attempting any question:

1. This examination is closed book, closed notes, closed neighbors.
2. Answer all questions.
   a. There is no choice.
   b. You will have to answer correctly all questions in this examination to get the maximum possible marks.
3. Do not ask any questions about the contents of this examination from anyone.
   a. If you think that there is something wrong with any of the questions, attempt it to the best of your understanding.
   b. If you believe that some essential piece of information is missing, make an appropriate assumption and use it to solve the problem.
4. All Web development questions should be answered using the HTML/JavaScript syntax.

**WARNING: Please note that Virtual University takes serious notice of using unfair means. Anyone found involved in cheating will get `F` grade in this course.

| **Question No: 1** | **Marks:14** |

You are required to develop a web page using HTML and JavaScript. The first page contains a button as shown in fig1.1. When the button is clicked an input prompt is opened as shown in fig 1.2. By using java script show either the input value is a binary number or not as shown in fig 1.3.
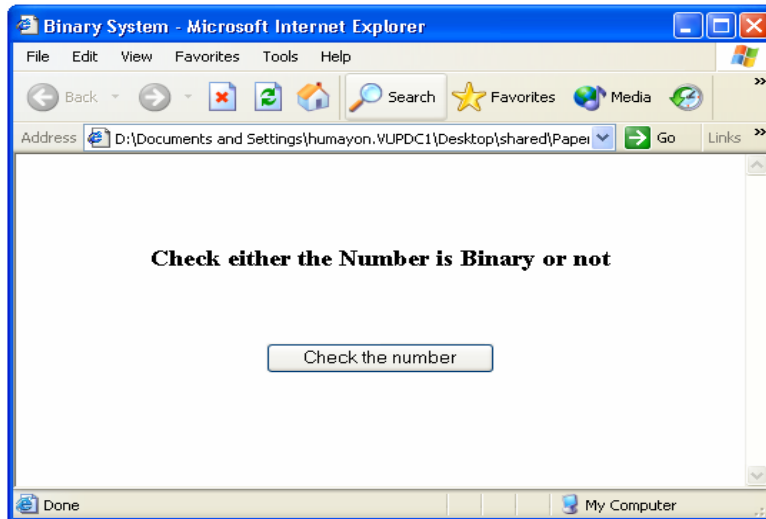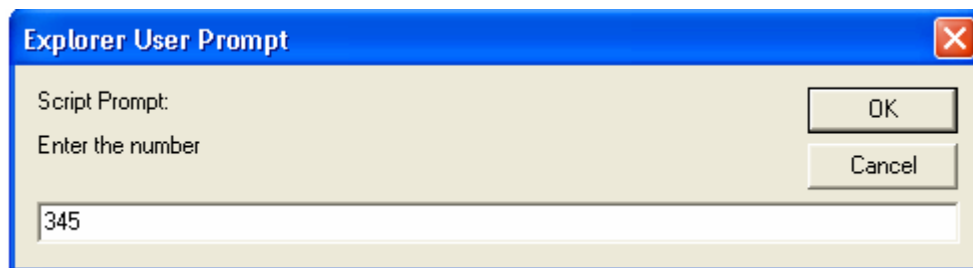
Fig 1.1

Fig 1.2

Fig 1.3

| **Question No: 2** | **Marks:10** |

(a). (5 marks) x, y and z are Boolean variables. Determine the truth tables for the following combinations:
(y + x).z

(b). (5 marks) Convert the following binary number into decimal number.

- **111011$_{(2)}$**

Question No: 3   **Marks:8**

(a) **What is High Level and Low Level Programming?**

(b) **Difference between Assembly languages and Machine languages?**

Question No: 4   **Marks:8**

- **What is software development life cycle? Write down the names of different phases of system development life cycle?**

Question No: 5   **Marks: 2**

A program that translates the source code written in a High Level Language in one go, is called_____.

1. Compiler
2. Interpreter
3. Device Driver
4. None of above.

Question No: 6   **Marks: 2**

A special type gateway that can keep external users from accessing resources on the LAN while letting LAN users access the external info is called _____

1. Repeater
2. Firewall
3. Encryption
4. Hub

Question No: 7   **Marks: 2**

What does the following JavaScript code

```
function changeBgcolor() {
    oldColor = window.document.bgColor;
    window.document.bgColor = "pink";
    window. alert("The old color was " + oldColor);
}
```

1. Change the Color of Window document to pink and nothing Else
2. Change the Color of Window document to pink and display the name of old Color in a dialogue box
3. Change the Color of Window document to Blue and displays name of old color in a dialogue box
4. Create a form in window document

Question No: 8 | **Marks: 2**

_____can also be improved through
Encryption.

1. Data Integrity
2. Data Accessibility
3. Data Security
4. Data Entry

Question No: 9 | **Marks: 2**

The collection of 4 bits is called _____.

1. Nibble
2. Byte
3. Word
4. Double-Word