WEB TECHNOLOGIES AND PROGRAMMING TAKE HOME EXAMS

INSTRUCTIONS:

Attempt five Questions

QUESTION ONE

a) **Match words and phrases in column M with the closest related meaning/word(s)/phrase(s) in column N. Enter your selection in the "Answer Booklet" provided to you, following instructions** *therein.* **(1 x 10 marks)**

M		N	
	This refers to how much data you can send through a network or modem connection.	**A**	Download
	This is the logic that computers use to determine if a statement is true or false.	**B**	JPEG
	Placeholders for saving web addresses, or URLs.	**C**	MODEM
	The process of transferring a copy of a file from a server to a client computer over the internet.	**D**	Digital Certificate
	A method used to send authenticated information over web.	**E**	Home page
	A site, or directory, that contains the same information as another site.	**F**	Bandwidth
	A website's first page or an individual's unique, personal page	**G**	SMTP
	This is the protocol used by computers to transfer web pages to one another.	**H**	HTML
	A file format for the storage of graphics in a computer file	**I**	URL
	An electronic device that allows your computer to exchange information with other computers over phone lines.	**J**	Mirror Sites
		K	Bookmarks
		L	FTP
		M	Boolean

b) Explain how you would check for web design issues that appear in websites? (10 marks)

QUESTION TWO

a) Write an HTML code that will display the following: (10 Marks)

KABALE UNIVERSITY		
Masters Programs	Insert a Green Background Here	Under-Graduate Studies
Post Graduate Studies	Knowledge Is the Future	Short Courses

b) Write an HTML tag that will insert an image "Car.jpg" on a web page and give it the following attributes: Border, height of 50, width of 50. (4 Marks)

c) Come up with an HTML code that will display the following: (6 Marks)

COURSE NAMES

- Basics of Website Designing and Publishing
- Website Designing
- Computer Applications
- Operating Systems

QUESTION THREE:

a) Write an HTML script that will display the following: (10 marks)

Enter Name of Your friend

Choose the file you want to send to your friend   **Browse File**

What does the file contain?

[√] Image   [√] Source Code   [ ] Binary Code

You have completed the form: **Submit Query**

b) Create an html page with lavender background with a message "warning" in large size blinking. Add scrolling text "read the message" below it.   (10 marks)

QUESTION FOUR:

a) Come up with an HTML script to generate the following Output   (10 marks)

Country	Population (In Crores)	
INDIA	1998	85
	1999	90
	2000	100
USA	1998	30
	1999	35
	2000	40
UK	1998	25
	1999	30
	2000	35

b) Create an html page with all the different text styles (bold, italic, superscript, subscript, underlined) and its combinations on separate lines. State style of each line in its text. (10 marks)

QUESTION FIVE

a) Define the website development process giving details of every phase (10 marks)

b) What is the Relevance of web Technologies and programming to your course? (5 marks)

c) What are the steps taken to create and host a website? (5 marks)

QUESTION SIX

a) Explain at least the 10 principles of good website design (10 marks)

b) Explain the concept of Responsive Web Designing (4 marks)

c) Consider the following security attack where an evil server attempts to impersonate a good server:

   i. The evil server obtains the certificate for the good server (available publicly from certificate authorities)

   ii. The evil server uses an active network attack to arrange for traffic from a particular browser intended for the good server to be sent to the evil server instead.

   iii. When a client attempts to open an HTTPS connection to the good server, the evil server receives the connection open request and behaves just like the good server, returning the good server's certificate at the appropriate point in the protocol.

Assuming that the evil server can obtain a valid certificate and mount an active network attack, can the client's security be compromised? Explain your answer. (6 marks)

End