

Roll No. ....

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**TCS-501**

**B. TECH. (CS) (FIFTH SEMESTER)  
END SEMESTER EXAMINATION, 2019**

**WEB TECHNOLOGY**

**Time : Three Hours**

**Maximum Marks : 100**

**Note :** (i) The question paper contains five questions.

(ii) All questions are compulsory.

(iii) Instructions on how to attempt a question are mentioned against it.

(iv) Total marks assigned to each question are **twenty**.

1. Attempt any *two* parts of choice from (a), (b) and (c). (2×10=20 Marks)

(a) (i) What is World Wide Web and how is it different from Internet ?

(ii) Explain web browser, web application and a search engine.

(b) Create an HTML5 page with the following specifications :

Browser tab should display "GEHU".

"Graphic Era Hill University" should be the page heading in the centre.

A section containing the heading "Overview", where few lines about the college are mentioned.

A section with the heading "Courses Offered", where few courses offered by college are mentioned as a list. Create sub-courses too.

A section mentioning courses and corresponding fees in tabular format.

A section containing college image of dimensions 500\*300.

A section to display an image advertisement.

A section containing copyright information and year (both mentioned in *italics*).



(c) What are frames in HTML ? Create a frame as shown below :

Colors			
Red	Green	Black	
Blue		Orange	Pink
		White	Yellow

2. Attempt any *two* parts of choice from (a), (b) and (c). (2×10=20 Marks)

(a) Explain various animation properties using CSS. Write a code for moving a square box along the four different corners of the browser screen, with its color and font size changing at each corner.

(b) (i) Write a program to style the table's even rows with background-color yellow and odd rows with background-color green on css hover.

(ii) Write a program to show the working of all the states of CSS links : link, visited, hover and active.

(c) Mention difference between display and visibility property. Explain box model with a diagram.

3. Attempt any *two* parts of choice from (a), (b) and (c). (2×10=20 Marks)

(a) What is an array in JavaScript ? Explain *five* different methods of an array. Write code to insert and delete an element in middle of an array.

(b) Use HTML DOM to :

Create a new h1 element in HTML.

Find and print content of a span element.

Print size of browser window.

(c) Write a program in javascript, to make the following layout :

Name	Likes	Dislikes	Like/Dislike	
C#	16	1	Like	Dislike
ASP.NET	3	1	Like	Dislike
SQL	16	2	Like	Dislike
AngularJS	25	0	Like	Dislike



(3)

There are like and dislike buttons in the table. The functionality of the program should be such that, if you click on the like/dislike button, the corresponding likes/dislikes count should increase.

4. Attempt any *two* parts of choice from (a), (b) and (c). (2×10=20 Marks)
  - (a) What is XML and how is it different from HTML ? What is XML schema and DTD ?
  - (b) Write a piece of code to show how to parse an XML file.
  - (c) What are SAX and DOM XML processors ? Also give the difference between two.
5. Attempt any *two* parts of choice from (a), (b) and (c). (2×10=20 Marks)
  - (a) Explain arrays and loops in PHP. Explain *five* different string functions in PHP.
  - (b) Write a PHP program to input a value from user and insert the value in database. Print all the rows from the database after the value is inserted.
  - (c) Explain few important points about Joomla and Drupal and mention advantages and disadvantages of each.