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## CMR INSTITUTE OF TECHNOLOGY: HYDERABAD UGC AUTONOMOUS

III- B.Tech. - II - Semester End Examinations (Supply)- December- 2024 FULL STACK WEB DEVELOPMENT (COMPUTER SCIENCE AND ENGINEERING)

[Time: 3 Hours]

[Max. Marks: 70]

Note: 1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have i, ii, iii as sub questions.

4. Illustrate your answers with NEAT sketches wherever necessary.

## PART-A

 $10 \times 2M = 20 M$ 

.No	Question	Blooms Taxonomy Level	со
1	List any four text formatting tags and their usage with examples	L2	1
2	The following is a web-page:	L1	1
	<html></html>		
	<head> <title>JavaScript</title></head>		
	<body bgcolor="Blue"></body>		
	<script language="JavaScript"></td><td></td><td></td></tr><tr><td></td><td><!document. Write(""<h1> hello world </h1>""); //></td><td></td><td></td></tr><tr><td></td><td></script>	-	
	When the above web page is loaded into a browser, will it display something on the browser or it displays error message?		
3	What is filtering in JQuery?	Ll	2
4	Define Loops.	L1	2
5	Define node server.	LI	3
6	What is routing?	LI	3
7	Discuss various ng-directives of AngularJS.	LI	4
8	Define Http module.	LI	4
9	How can you initialize a repository in Git?	LI	5
10	What are the benefits of using Git?	L2	5

## PART-B

5 X 10M = 50 M

11.A	(i) Create a simple HTML page which illustrates the three types of list. Try adding a		1
	defines uses unordered lists to define terms	L4	
	(ii) Write the sample code to tag the Geo location?		
	OR		
11.B	(i) Illustrate between <span> and <div> tags with suitable example.</div></span>		1
	(ii)What are the different types of cascading style styles explain with examples in detail	L4	
12.A	Explain the Arrays and String Processing using example.	L2	2
	OR		
12.B	List all JQuery event methods in detail with example.	' L2	2
13.A	Explain about the MongoDB driver.	L2	3
	OR		
13.B	Describe the templet engine in Node.js.	L2	3
14.A	List the controllers in Angular and write the properties.	L3	4
	OR		
14.B	Create a UI for form validation. Explain in detail using steps.	L3	4
15.A	How to get start with GIT and work with Local repository.  Write in detail?	L2	5
	OR		
15.B	Compare Git fetch and pull.	L2	5



## CMR INSTITUTE OF TECHNOLOGY



((Approved by AICTE, Permanently Affiliated to INTUIL Hyderahad, Accredited by NBA and NAAC with 'A' Grade) Kandlakoya, Medchal Road, Hydarabad-501401 UGC Autonomous

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COURSE:	M-B. Tech/M. Tech/MBA 7 SEM
Date of Examination Regulation Regular / Supply Branch Subject Name Subject Code	: 06-01-2025 : R20 : Supply : Computer Science AND Engineering : Full Stack web Development : 20-cs-PC-323.

Part A 1. List any four tent formatting tags and their usage with example. A. HTML contains several elements for defining tent with a special meaning formatting elements were designed to display special types 267, LStrongy, Liz, LSmallz zmarkzZsubzZsupz, Zinsy Zeny @HTML <b7 and <shong > element & <f7 and <small > element The HTML <b = element defines bold text, without any entra importance Enample: 267 This tent is bold 467

The html 25trong 7 element defines tent with strong importance. Enample: This tent is strong 2/8400097

The HTML Zir element défines tent displayed in stalic.

Enample: Lir This tent is stalk. L'ir

The ATML ZSmall > element defines smaller text.

Example: This is smaller tent </small >.

- 5. Define node scover.
- A. Node is an open source server environment which is free and mans on various platforms such as windows, Linux, Unix, Mac Os etc. It uses javascript on the sorver. It can generate dynamic page content using create(), open(), read(), write(), delete() and close() files on the Server. It can collect form data, and add, delete, modify data in the database.
- A. Routing defines how the altent requests are handled by the application endpoints. Routing in Node refers to the process of dekerning how an application responds to client requests to different endpoints. En a useb application, these endpoints typically correspond to different pages or functionalities within the application.
- f. Discuss various ng-directives of Angular Is.
- A. Angular 15 lets you entend HTML with new attributes called directives. Angular 18 has a set of built-in directives which offers functionality to your applications.

mg-app: dérective initialités an Angular 15 application.

ng-inst: directive initializes application data.

ng-model: directive binds the value of HTML controls (input, select, tentarea) to application data.

ng-repeat: directive repeats an HTML element.

- 8. Define tittp Module.
- A. The 11-ttp module provides functionality to create and monege 4170p servers and cleents. It includes methods to handle incoming requests, Send responses and interact with HTTP headens and status codes.
- q. How can you initialize a repository in Git?
- Git local Software to initialize a repository, use a command

Useage: get init.

```
Output:
```

```
Three types of list
       1. Ordered List
         1. first
        2. Second
         3. Third
      2. Unordered list
         · Item 1
         · Item 2
         · Item 3
      3. Definition List
       HTML: Hypertent Markup Language.
        CSS: cascading Style sheets.
        XML: Entensionable Markup language.
is Write the sample code to tag the Geo-location?
   21. DOCTYPE html >
   ∠htmlフ
    2body>
    Chly HTML Geolocation Clh17
    CPT Cleck the button 
    Zbullon on Cleck = "get hocalfor()" > click here /bullon>
     LIPT
     LScript >
     const x = document. getflement By ?d ("demo");
     -function gerhocation () {
        if (navigator geolocation) ?
          navigator. geolocation. getCurrent Position (showPosition);
         X. innerHTML = "Geolocation is not supported";
```

Javascript using the class or id attribute. Ldiv> 95 a block-level element and LSpan> is an inline element. Enample: Lhiz This is 2 Span 7 Span element 2/Span > En HTML L/h17 outpute This is span element in Html. : (i), What are the different types of Cascading style sheets. explain with 12.A. Employa A. CSS is used to Style and layout of web pages, controlling the appearance of HTML elements. CSS trangets HTML elements and applies Style rules to dictate their appearance. Intène css énvolves applying styles directly to endividual terms elements Types: 1. Inline CSS using the Style attribute. Style = "color: "blue; font-size; 50px; font-family: Times New Roman; Enample Inline CGS ZIP>. output. Inline CSS. Internal css involves applying styles on individueal HTML elements 2. Internal (or) Embedded CSS. using the style tag. and the coresponding that element. LStyler color: "blue"; font-Size: 50pm; font-family: Times New Roman. 3 2/styley

12 A. Enplain the Arrays and String processing using example. A. An array is a special variable, which can hold more than one value-An array can hold many values under a single name, and you can access - the values by referring to an index number. Creating an Array Using an array literal is the easiest way to create a savascript array. Syntan: const arr\_name = [ îtem 1, îtem 2, ··· îtem n ]; Enample: Const names = ["ram", "sita", "sai"]; Using Kyword new. Syptant: const names = new Array ("ram", "sita", "sa"); Storings are for Storing text and written with quotes. Enample: let name = "CSM"; let name = 'csm'; Streng length. To find the length of a strong use the built in length property. let alpha = "ABCD ... XYZ"; let length = alpha. length;

output

length = 26.

12 B. List all Jauery event methods in detail with enample. A. All the d'itterent visitors actions that a web page can respond to are called events. Mouse Events Keyboard Events form Events Downert/windows Events Cleck Keypress Submit load dbcleek Key down Change relike mouse enter Keyup focus Scroll mouseleave blur Unload Mouse Events cleck() method attaches an event hardler function to an HITAL element En: \$("p"). click (function() & 3): \$(+hss). hide (); dbcleck(): method attaches an event handler function to an HIML element. Ex: \$("p"). dbclick (function () } \$ (this). hide(); mouseenter: method affaches an event handler function to an HTML element. In: \$ ("p"). mouseenter (function () { alest (" it's mouseenter event"); mouse leave: method attaches an event handler function to an HTML element. In: \$("p"). mouse leave (function() } alert ("Bye!!!"); 3);

Submit: Attempting to submit a form, bind to form element only Example: \$("form"). fishbatt (function() {

Windows Events

load: to load the web page in the browser.

Enample: \$ (" hi"). load (function () {

restre: To increase or decrease the size of the maninise window. Enample: \$ ("b1"): resize (function() {

500011: To move the window up or down

Inample: \$ ("hi"). Scroll (function () f

unload: To unload the window.

Inample: \$ ("hi"). senload (function() {

13.A. Enplain about the MongoDB driver.

# It \$5 a library designed to allow developers to interact with mongodb databases using the programming language

& Each driver provides a set of APIs that are specific to the language, ensuring that developers can work with mongoods in a way that feels natural within the content of their language's ecosystem.

Key functions

1. Connection Management: Drivers manage connections to the mongods Screen, hardling things like connection posking & reconnections.

```
pug template Engine
 use pug template engine in noderjs application using Enpiress. js.
Install Pug
npm install pug -- Save.
* Pug template must be written Posside pug file and all pug
files must be put inside views tolder in the root tolder of blode-js
 application.
trample
  Enden-pug
  doctype btml
  html
        title Simple Pug
        hi This is pug template engine.
         P horem
 file: server. js
  var enpress = require ('enpress');
   Van app = enpress ();
   11 set view engine.
    apposet ("view engine", "pug")
     app.get ('/', function (reg, res) {
         res, render ('view.pug', index);
          res-render l'inden');
```

3);

```
= moys-bu orday
   Lingue names "Uscaname" nog wind >
                                            .: 200 Moms:
                                      < 11 = surou weat>
                  CEALS Registration torn voledation Llh3>
                                 Zh15 CMRIT colunge 2[h17
                                       4 " " = 940- pro pods
                                                  Mhead>
                                                  < 7 dy 25/70
2 Hites Angulas is form validation 2/ titles
                                                    cheedy
                                                     <1W47
                                             SIMA SOUTHDE DEMIS
148. Create a UI for form volidation indulain in durail using 6445.
                              $ Scope, Last Hame = " College",
                                $ Scope. frash eme = "CMBII";
                     3 (2902) house ( house) ; thouse ($500ps)
                         Vor app = angular. module (' myApp',[]);
                  full Name: { { first Name + " " + Last Hame }
         Lost Name: L'Enput type="tent" ng-model = "lesthames y chan
         first Name: Linguit type="tent" ng-model ="firstName"> Lors
                  < (14) hu, = injayor = bu (184 hue, = do -bu ngp>
```

- 15 A. How to get start with GIT and work with hocal repository. Write in detail?
  - A. To start with get and working with a local repository involves Several Steps from installation to basic commands.

Stepl: Install Git.

at go to official get website and download the version suitable for operating system.

\* follow the installation instructions in operating system.

\* After Enstallation, open a terminal and our the following command to verity Pinstallation.

-> git -- Version.

Step 2: Configure Git

& But username.

get config --global. user. name "name"

\* Set email.

get config -- global user email "email@gmail.com

# To check configuration.

git config -- List.

Step 3: Create a local repository.

& Navigate to the project directory, using cd command ed path/folder/project.

\* Initalize a git repository.

git init.

& cheack Status.

git Status

- 15 B. Compare Git fetch and pull.
  - \* git fetch and get pull are both commands used to update doed repository with changes from a remote repository, but they Some different pursposes and operate in different ways.
    - \* Purpose: It retrieves updates from a remote repository but does not merge them into your local branch.
    - \* It updates remote-tracking branches with the latest changes from the remote repository.
    - detects changes from the remote repository. gst fetch origin.
    - a Chech Status

git status

# View changes gft log

\* Menge changes manually git merge origin/moin.

-4 Get Pull

- \* Purpose: It is a combination of 'git fetch' followed by 'git merge'
- \* It retrieves updates from the remote repository and automatically menges them into current branch.
- # 90 queckly update convent branch with the latest changes from the remote repository without reviewong them first.
- of Pull changes from the remote repository git pull origin main.