

DBJ-003-1083001]

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Seat No. _____

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M. Sc. (IT&CA) (Sem. III) Examination June - 2022

CS-13: Hybrid Mobile Applications Development Using Web Technologies

Faculty Code: 003

Subject Code: 1083001

Time: 2.30 Hours] [Total Marks			70
Instruction	on: Attempt any five of the following.		
1 (a)	Attempt the following: (1) A application is one that combines elements both native and web applications. (2) input type accepts only numerical values attribute specifies that an input field filled out. (4) Give full form of CSS.	lue.	4
(b) (c) (d)	Explain url type of input element with suitable ex Explain audio and video tag with suitable example Explain any five form validation with example.	-	2 3 5
2 (a)	Attempt the following: (1) element is used to represent the different types of output, such as output we script. (2) attribute specifies the maximum recharacter for an input field. (3) attribute specifies the maximum valinput field. (4) Give full form of SASS.	itten by a number of	4
(b) (c) (d)	Explain range type of input element with suitable What is the need of Hybrid Mobile Application? Explain local storage with suitable example.	example.	2 3 5

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3	(a)	Attempt the following:	4
		(1) In Java script, variables are declared using	
		keyword.	
		(2) selector selects all elements available in a	
		DOM.	
		(3) directive initializes application data.	
		(4) Thedirective binds the value of HTML controls	
		to application data.	
	(b)	What is JQuery?	2
	(c)	Explain ng-show and ng-hide with suitable example.	3
	(d)	Explain service in angularJS with suitable example.	5
4	(a)	Attempt the following:	4
		(1) directive repeats html elements for each item	
		in a collection.	
		(2) # is used to define selector.	
		(3) Jquery are used to select and manipulate HTML elements.	
		(4) Thedirective defines the controller.	
	(b)	What is route in angularJS?	2
	(c)	Explain function in JavaScript.	3
	(d)	Explain ng-model, ng-app, ng-bind with suitable example.	5
5	(a)	Attempt the following:	4
		(1) The main class for all the bars is class.	
		(2) class is used to add avatar in list as an item.	
		(3) Give full form of CLI.	
		(4) is a container element for the whole Ionic app.	
	(b)	How to add headers in ionic?	2
	(c)	Explain List component with suitable example.	3
	(d)	Explain ionic Javascript Action Sheet component with example.	5

6	(a)	Attempt the following:	4
		(1) The main class for all the button types in class.	
		(2) class is used to add thumbnails in list as an item.	
		(3) command is used to serve your app on the web	
		browser.	
		(4) If you have not set any colour to the required element,	
		it sets the primary colour by default. True or False.	
	(b)	What is themes in ionic?	2
	(c)	Explain tabs with suitable example.	3
	(d)	Explain ionic Javascript Popup component with example.	5
7	(a)	Attempt the following:	4
		(1) In type of array each key has its own specific value.	
		(2) function inserts one or more elements to the end of an array.	
		(3) Which function search an array for a value and returns the key?	
		(4) Give full form of JSON.	
	(b)	Explain json_encode().	2
	(c)	Explain NodeJS and express-NodeJS.	3
(d)	(d)	Explain insertion and selection with PHP and MySQL.	5
8	(a)	Attempt the following:	4
		(1) What is an array?	
		(2) function deletes the last element of an array.	
		(3) Which function searches an array for a specific value?	
		(4) Node JS applications uses single threaded event loop model architecture to handle multiple concurrent clients. True or False.	
	(b)	Explain json_decode ().	2
	(c)	Explain associative array with suitable example.	3
	(d)	Explain architecture of NodeJS.	5

9	(a)	Answer the following:	4
		(1) Give full form of VCS.	
		(2) command sends local commits to the remote	
		repository.	
		(3) command is used to switch from one branch	
		to another.	
		(4) ionic plugin allows us to record and playback	
		audio files on a device.	
	(b)	What is the use of commit and rollback command in git?	2
	(c)	Explain ionic-cordova InAppBrowser with example.	3
	(d)	Write steps to build android app and publishing it on	5
		playstore.	
10	(a)	Answer the following:	4
		(1) Give full form of npm.	
		(2) command returns the current state of the repository.	
		(3) The cordova plugin is used to open external links	
		from your app inside a web browser.	
		(4) The git command creates a new git repository.	
	(b)	Explain push and pull in git.	2
	(c)	Explain git branches.	3
	(d)	Explain ionic-cordova media with suitable example.	5