

Reg. No.

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B.E / B.TECH. DEGREE EXAMINATIONS, MAY 2023

Sixth Semester

CS18002 – ADVANCED USER INTERFACE TECHNOLOGIES*(Common to CS & IT)***(Regulation 2018 / Regulation 2018A)****TIME: 3 HOURS****MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Students will be able to excel expertly about the various Client-side JS Framework, Basics of ANGULAR 4.0.	3
CO 2	Students will be able to review the various concepts and need of TypeScript.	2
CO 3	Students will be able to know the Front-end application development and the React library.	2
CO 4	Students will be to develop the various React features including components and forms.	3
CO 5	Students will be able to accomplish the functional front-end web application using React.	4

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

	CO	RBT LEVEL
1. Differentiate tuple and array in typescript.	1	4
2. Compare and contrast var and let keyword in Typescript with a simple example.	1	4
3. Distinguish between AngularJs and Angular.	2	4
4. Summarize the properties of a decorator.	2	2
5. Enumerate the features of Template driven forms.	3	2
6. Verify if NodeJS and npm is installed on your system or not.	3	3
7. List out the lifecycle methods of components in React.	4	2
8. Comment about the state implementation in React.	4	2
9. Do you need to keep all component states in Redux store? Justify.	5	3
10. Mention the Key benefits of Flux.	5	2

PART- B (5 x 14 = 70 Marks)

	Marks	CO	RBT LEVEL
11. (a) Discuss the steps involved in the installation and execution of Typescript.	(14)	1	5
(OR)			
(b) With suitable examples, explain the various types of inheritance in Typescript.	(14)	1	5
12. (a) Discuss the different types of data binding in Angular with suitable examples.	(14)	2	5
(OR)			
(b) Explain the various types of pipes provided by Angular 4 with examples.	(14)	2	5
13. (a) Compare and contrast Template driven forms and Model driven forms.	(14)	3	3
(OR)			
(b) Demonstrate the form validation using Angular for e-mail and password with an example.	(14)	3	3
14. (a) Differentiate Hybrid and Native Framework.	(14)	4	4
(OR)			
(b) Describe the process of creating single page application using react router.	(14)	4	4
15. (a) Develop a simple react-redux application by combining action, reducer and storage unit.	(14)	5	5
(OR)			
(b) Elaborate the data flow process in React-Redux form.	(14)	5	5

PART- C (1 x 10 = 10 Marks)

(Q.No.16 is compulsory)

	Marks	CO	RBT LEVEL
16. Write a typescript program to compute the prime factors of a given number.	(10)	1	4
