

Date: 20-05-2022

**K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai-22**

**(Autonomous College Affiliated to University of Mumbai)**

**End Semester Exam**

April - May 2022

B. Tech. Program: Information Technology

Examination: TY Semester: VI

Course Code: 1UITC602 and Course Name: WEB X.O

Duration: 03 Hours

Max. Marks: 60

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

		Max. Marks	CO	BT level
<b>Q 1</b>	<b>Solve any six questions out of eight:</b>	<b>12</b>		
i)	Define Semantic Web.	02	CO1	R
ii)	Differentiate between var and let.	02	CO2	U
iii)	What is change detection lifecycle?	02	CO3	U
iv)	Describe advantages of MongoDB.	02	CO4	U
v)	Describe URL Building in Flask.	02	CO5	U
vi)	Explain the Content Management System.	02	CO6	U
vii)	Write command with example and explanation to find all the collections in current database.	02	CO4	A
viii)	Describe Single-Page Applications and its lifecycle?	02	CO3	U
<b>Q.2</b>	<b>Solve any four questions out of six.</b>	<b>16</b>		
i)	List all the measuring success factors. Explain any four.	04	CO1	U

ii)	Apply Arrow function in TypeScript with example.	04	CO2	A
iii)	Demonstrate child to parent component interaction in Angular with example.	04	CO3	A
iv)	Describe all the MongoDB data types.	04	CO4	U
v)	Implement Flask application to set and get cookies.	04	CO5	A
vi)	Sketch AJAX Web Application Model and describe it.	04	CO6	A
<b>Q.3</b>	<b>Solve any two questions out of three.</b>	<b>16</b>		
i)	Describe the Optimal Strategy for Choosing Your Web Analytics tool .	08	CO1	U
ii)	Implement the function parameter in typescript with example	08	CO2	A
iii)	Implement the styling of components with different ViewEncapsulation modes in Angular.	08	CO3	A
<b>Q.4</b>	<b>Solve any two questions out of three.</b>	<b>16</b>		
i)	Write command for following with example and explanation, a. Show the result in pretty form b. Get only cayden data as an output c. Get only MongoDB data as an output with only name field d. Get only MongoDB data without _id field in it.	08	CO4	A
ii)	Implement proper user interface and application for weather updating in Flask.	08	CO5	A
iii)	Describe Drupal and Django framework with features.	08	CO6	U