

K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

April – May 2023

B.Tech Program: IT Scheme I/II: II

Examination: TY Semester: VI

Course Code: ITC602 and Course Name: WEB X.O

Date of Exam: 15/5/2023

Duration: 2.5 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
Q 1	Solve any six questions out of eight:	12		
i)	Define Semantic Web.	02	CO1	U
ii)	Differentiate between var and let in Typescript.	02	CO2	U
iii)	Describe Single-Page Applications and its lifecycle?	02	CO3	U
iv)	Write command for creating new user with example.	02	CO4	A
v)	Difference between Django and Flask.	02	CO5	U
vi)	What is CMS?	02	CO6	U
vii)	What is change detection lifecycle?	02	CO3	U
viii)	Describe advantages of MongoDB.	02	CO4	U
Q.2	Solve any four questions out of six.	16		
i)	Explain clickstream analysis. State its benefits and drawbacks.	04	CO1	U
ii)	Write a program for Fibonacci counter in typescript.	04	CO2	A
iii)	List Angular lifecycle hooks, Explain any four.	04	CO3	U
iv)	Write command for following with example for Employee Data, a. Show the result of all data in pretty form b. Get only Employee Name data as an output c. Set the filter to "E. no:41" and get only the first field with "E. no:32" value d. Get only Salary data without _id field in it	04	CO4	A

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v)	Describe the App Routing in Flask with example	04	CO5	A
vi)	Identify difference between traditional web application and rich internet application.	04	CO6	An
Q.3	Solve any two questions out of three.	16		
i)	Describe the Optimal Strategy for Choosing Your Web Analytics tool.	08	CO1	U
ii)	Explain parameters for evaluation of REST API patterns with example.	08	CO4	A
iii)	Implement a flask application to create portfolio page. Draw UI of the output.	08	CO5	A
Q.4	Solve any two questions out of three.	16		
i)	Describe and apply the inheritance in TypeScript with example.	08	CO2	A
ii)	Design registrant form and perform validation in Angular. Draw UI of the output.	08	CO3	A
iii)	Sketch AJAX Web Application Model and describe it in detail.	08	CO6	U
