BNCET LIBRARY BANGALORE-49

CBCS SCHEME

USN | | | | | | | | | | |

BIS601

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2026
Full Stack Development

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	What is an array in Java Script? List out their key feature. Describe any three methods with example.	10	L2	CO1
	b.	Create an array of five cities and perform following operations in java script: i) Log total number of cities ii) Add new city at the end iii) Remove first city iv) Find the index of city	10	L3	CO1
		OR			
Q.2	a.	Differentiate between primitive and non primitive data types.	10	L2	CO1
	b.	Write java script program for below i) Access only even numbers in the list ii) Check given string is polindrom	10	L3	CO1
		Module – 2			
Q.3	a.	Define DOM. Discuss the below methods using Java Script. i) Selecting Element ii) Modifying Element iii) Adding Element	10	L2	CO2
	b.	Create a button in HTML with text "ClickMe". Add an event listener to log "Button clicked" to the console when button is clicked.	10	L3	CO2
		OR			
Q.4	a.	What is an Events? Explain any three types of Events with example.	10	L2	CO2
	b.	Write a Java Script to select an image in your HTML and add a mouseover event listener to change its border color.	10	L3	CO2

		Module – 3			
Q.5	**a.**	Define MERN. What are the components of MERN? Mention the usage of each component.	**10**	**L2**	**CO3**
	b.	What is Issue Tracker? Explain their usages.	**10**	**L2**	**CO3**
		OR			
Q.6	**a.**	Explain the process of server-less Hello world with example.	**10**	**L2**	**CO3**
	b.	Explain the composing components with new structure of UI.	**10**	**L2**	**CO3**
		Module – 4			
Q.7	**a.**	What is GraphQL? List out the advantages of GraphQL with example of GraphQL query.	**10**	**L2**	**CO4**
	b.	What are the different way to implement validations in GraphQL?	**10**	**L2**	**CO4**
		OR			
Q.8	**a.**	Explain different types of errors in UI to improve the user experience.	**10**	**L2**	**CO4**
	b.	What is Express? Brief note on Express.	**10**	**L2**	**CO4**
		Module – 5			
Q.9	**a.**	What is MongoDB? Explain the key feature of MongoDB collections.	**10**	**L2**	**CO5**
	b.	Explain MongoDB CRUD operations.	**10**	**L2**	**CO5**
		OR			
Q.10	**a.**	What is Aggregation in MongoDB? Explain different Aggregation operations with example.	**10**	**L2**	**CO5**
	b.	Explain different steps for reading from MongoDB.	**10**	**L2**	**CO5**

* * * * *

VTU-26-05-2026 01:23:38pm - EP - EP - EP