(3 Hours)   **(Total Marks: 80)**

N.B.:   1. Question No.1 is compulsory.

2. Answer any three out of remaining questions.

3. Assume suitable data if necessary.

4. Figures to the right indicate full marks.

Q1.	a) Differentiate between HTML and XML.	**(5)**
	b) How to declare variables in ES6?	**(5)**
	c) What is React JSX?	**(5)**
	d) Short Note on REPL.	**(5)**

Q2.	a) Write a ReactJS code for creating 2 components and render those components on webpage.	**(10)**
	b) What is NodeJS? Explain different types of NodeJS Modules.	**(10)**

Q3.	a) Differentiate between MVC, Flux, Redux.	**(10)**
	b) What is REST API? What are the principles of REST API.	**(10)**

Q4.	a) How does routing work in ExpressJS? Provide a basic routing example.	**(10)**
	b) Explain promises with an example.	**(10)**

Q5.	a) Explain features of Express JS. Write a program in ExpressJs to display Hello World on browser.	**(10)**
	b) What are Buffers and Streams in NodeJs? Explain with an example.	**(10)**

Q6.   Short note on: **(Any 4)**   **(20)**

a)   DNS
b)   Arrow Function
c)   NPM
d)   JSON
e)   ES5 vs. ES6

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