

P P SAVANI UNIVERSITY

Second Semester of M.Sc.(CS) Examination

June 2020

SSCS7070 Advance Web Technology

22.06.2020, Monday

Time: 10:00 A.M. to 12:30 P.M.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1 Answer the following. (Any Five) **[05]**

- (i) What is the difference between an alert box and a confirmation box?
- (ii) Explain the difference between "==" and "===".
- (iii) Differentiate between Java and JavaScript?
- (iv) What is the use of isNaN function?
- (v) Which keyword is used to print the text in the screen?
- (vi) How to declare 2-D matrix in JavaScript?
- (vii) What are the features of JavaScript?

Q - 2 (a) What is Array? Describe any three array function with suitable example. **[05]**

Q - 2 (b) Print the pattern. **[05]**

```
1
2 3
4 5 6
7 8 9 10
```

OR

Q - 2 (a) Write a program to sort array element in descending order. Take input from user. **[05]**

Q - 2 (b) Explain While and do-while loop in JavaScript with suitable example. **[05]**

Q - 3 (a) Explain following method with suitable example. **[05]**

- i. subString()
- ii. replace()
- iii. split()

Q - 3 (b) List five Math object method. Explain any two method with suitable example. **[05]**

OR

- Q - 3 (a) List five Date object method. Explain any one method with suitable example. [05]
- Q - 3 (b) Explain following method with suitable example. [05]
- i. charAt()
 - ii. indexOf()
 - iii. slice()

- Q - 4 How to send, receive and store data in JSON? [05]

SECTION - II

- Q - 1 Answer the following. (Any Five) [05]
- (i) How Node.js modules are available externally?
 - (ii) Node process is Local Object. TRUE / FALSE
 - (iii) Which function is used to include modules in Node Js.
 - (iv) Define DOM.
 - (v) List out the different ways an HTML element can be accessed in a JavaScript code.
 - (vi) What is the use of Push method in JavaScript?
 - (vii) Node.js uses an event-driven, non-blocking I/O model. TRUE / FALSE.
- Q - 2 (a) How to handle HTTP Request in Node.js? Explain with suitable example. [05]
- Q - 2 (b) Explain URL module with suitable example. [05]

OR

- Q - 2 (a) Define Event Emitter class. Write a program to Raise and Handle Node.js events. [05]
- Q - 2 (b) Explain http module with suitable example. [05]
- Q - 3 (a) Explain different Exports object with suitable example. [05]
- Q - 3 (b) Explain how to access SQL server in Node.js with suitable example. [05]

OR

- Q - 3 (a) Explain Traditional web server model and Node.js process model. [05]
- Q - 3 (b) Explain different Exports function with suitable example. [05]
- Q - 4 Explain open, read and Write a file in Node.js. [05]
