

Total No. of Questions : 5]

SEAT No. :

**PB-1469**

[Total No. of Pages : 2

**[6226]-404**

**S.Y. B.B.A. (C.A.)**

**CA - 404 : NODE JS**

**(2019 Pattern) (CBCS) (Semester - IV)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

**Q1) Answer the following (Any EIGHT) :**

**[8 × 2 = 16]**

- a) What are the components of NPM?
- b) Write the syntax to read a file asynchronously in Node.js using the fs module.
- c) Explain the syntax for configuring a database connection in a Node.js application.
- d) What is NodeJS?
- e) What is REPL?
- f) Define Anonymous function
- g) What are the features of Node Js?
- h) Write about arrow function.
- i) What are the types of streams in NodeJs?
- j) What is a module? List its types

**Q2) Answer the following (Any Four) :**

**[4 × 4 = 16]**

- a) Write a program in Node Js to create a Historical Place portal
- b) Write a Node.js program that updates the marks of a given student Rno in "student" table and displays the result.
- c) What is the purpose of module.exports in node.js?
- d) Explain difference between AngularJS and NodeJS
- e) What is a listener? Explain function requestListener() with suitable examples.

**P.T.O**

**Q3) Answer the following (Any Four) :**

**[4 × 4 = 16]**

- a) Explain the traditional web server model in detail? List its limitations
- b) Write a NodeJS program which will convert the output “SY BBA - CA” into upper - case and lower - case.
- c) What is a file System? Explain different operations performed on files.
- d) What is the event explained in detail? Explain any two methods of event in detail.
- e) Write a Node.js program to write data to file in synchronous and asynchronous modes.

**Q4) Answer the following (Any Four) :**

**[4 × 4 = 16]**

- a) Write a NodeJS Program to create a customer DB and account table (cid, name, balance) in mysql.
- b) Write a code to perform the following operations on Buffer data – Concat, slice, compare.
- c) What is the package in NodeJS? Explain with example.
- d) Write a NodeJS program to search a given word in a file and display the result to Console.
- e) What are dependencies and devDependencies in package.json file?

**Q5) Answer the following (Any Two) :**

**[2 × 3 = 6]**

- a) Explain web server in detail.
- b) What is the difference between blocking and Non-blocking?
- c) Explain the usage of a buffer class in Node.js?

