

Total No. of Questions: 5]

SEAT No. :

PA-1976

[5954]-404

[Total No. of Pages : 2

SY B.B.A. (C.A.)

CA - 404 : NODE JS

(2019 Pattern) (Semester-IV)

Time : 2 ½ 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 is the command to initialize node package manager (NPM)? write it's syntax.
- b) What is REPL?
- c) List any four core modules of node. JS.
- d) List any two methods included under path module of node. JS.
- e) For which tasks a File System module is used for?
- f) Write a command to add dependency "express" using NPM.
- g) Write a command to install MYSQL Package by using NPM.
- h) Write down steps to handle http requests while creating web server using node. JS.
- i) Write any two advantages of node. JS.
- j) Write any two functions of Buffer used in node. JS.

Q2) Answer the following (any Four)

[4×4=16]

- a) Write a Program to update table records using node. JS and MySQL database.
- b) Explain Node.JS Process Model with the help of diagram.
- c) How does Node.JS handles a file request.
- d) What is the Purpose of object module experts in node.JS?
- e) Explain LC. readfile () method for all Possible ralves of options?

P.T.O.

**Q3)** Answer the following (any four)

**[4×4=16]**

- a) Write a Program which uses addlistener ( ) method of Event Emmitter class.
- b) Write a short note on NPM.
- c) Write a Program to delete table records using node.JS and MySQL database.
- d) How do you install Packages locally using NPM. Explain with an example.
- e) Compare Traditional web. server model and Node.JS Process model.

**Q4)** Answer the following (any four)

**[4×4=16]**

- a) Write a Program to use SoL SELECT very to show data from a table using node. JS and MySoL database.
- b) Explain steps to install Node.JS on windows.
- c) Write a Program to write to a file in node.JS
- d) How to add dependency into Package JS on?
- e) Write a Program to calcolate factorial of given number using function.

**Q5)** Answer the following (any two)

**[2×3=6]**

- a) Explain the meaning, purpose, steps to execute and output of below program:

```
var http = require ('http');
http. create server (function (req, res){
res. write head (200, {'content - Type' : 'text/htm' });
res. end ('Hello world');
}) listen (8080);
```

- b) Explain working of writeHead ( )
- c) Explain Inheriting events with suitable example.

