

Total No. of Questions : 5]

SEAT No. :

**PD1445**

**[6441]-604**

[Total No. of Pages : 2

**S.Y. B.B.A. (Computer Application)  
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) Define NodeJs.
- b) How is NodeJs different from Js?
- c) Write a code to create a HTTP server in NodeJs.
- d) What is Buffer?
- e) What is REPL? Give an example.
- f) Define webserver.
- g) Define Callback function.
- h) What are the 3 types of modules?
- i) What is the purpose of the following code : `var http = require ('http');`
- j) How to check the installed version of Nodejs?

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

**[4×4=16]**

- a) Write down difference between Synchronous and Asynchronous.
- b) Create a Node.js Application to check whether a given name is directory or file.
- c) Create Node.js Application that uses user defined module circle.js which exports the functions `area()` and `circumference()` and display the details on the console.
- d) List out some advantages of NodeJs.
- e) Explain EventEmitter.

**P.T.O.**

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

**[4×4=16]**

- a) Write a Node.js program that uses a user defined Module to return the Factorial of a given number.
- b) Create Node.js Application that binds multiple custom listeners to a single event.
- c) Write a short note on NPM.
- d) Explain anonymous functions with a suitable example.
- e) How to delete a file in Nodejs?

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

**[4×4=16]**

- a) Write a Nodejs Program to create a student DB and Stu table (roll\_no, sname, percentage) in mysql.
- b) Write a Nodejs code to read filename and to return the content of file on terminal.
- c) How to create a Buffer? Write a code to perform the following operations on Buffer data - Concat, Compare, Copy.
- d) Which method is used to get the information about a file. Give a suitable example.
- e) Where Node.js is not recommended for use? And where is it well suitable to use?

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

**[2×3=6]**

- a) Explain NodeJs Process Model.
- b) Write any 3 EventEmitter methods and its description.
- c) How to take input in Node.js?

