

GANPAT UNIVERSITY
B.TECH (CE/IT/CE-AI) SEM – V
FIRST INTERNAL EXAMINATION – SEPTEMBER 2021
2CEIT5PE4: SOFTWARE PACKAGES

TIME:1 Hour**TOTAL MARKS: 20**

Instructions: (1) All questions are Compulsory.
 (2) Figures to the right indicate full marks.
 (3) Be precise and to the point in your answer.

- Q.1** How does Node.js overcome the problem of blocking of I/O operations? (4) CO1
- Q.2** Write a Node.js program for fetching word from command line arguments. Sort and display all the characters in alphabetical order without using any in-built function. (4) CO2
- For example: >> node example1.js hello
 The sorted word is: ehlllo
- Q.3** What is Synchronous and Asynchronous in file system module? Explain **unlink()** and **appendFile()** methods with an example. (4) CO2
- Q.4** Create an object of book with elements id, title and author name. Export that object in another file and fetch out specific book with title **“7 habits of highly effective people”** and print it on web page. (4) CO2
- Q.5** Do as directed: (4) CO1, CO2
- 1) What are the benefits and drawbacks of Node.js?
 - 2) How to bind multiple listeners with single event in node.js?
 - 3) Give the output of following codes:
 1. `const queryString2 = new URL('https://www.uvpce.ac.in/CE/syllbus/Soft_pacg/?programming=nodejs');
 console.log("Path name is :-"+queryString2.pathname);
 console.log("Search Parameter is :-"+queryString2.searchParams);`
 2. `const name = 'Ganpat_University';
 require('path').join('/', 'users', name, 'node.txt');`

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