

GANPAT UNIVERSITY
B.TECH (COMPUTER ENGINEERING/INFORMATION TECHNOLOGY) SEM – V
FIRST INTERNAL EXAMINATION SEPTEMBER 2022
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	What is Node.js? Show the working of Node.js with the help of diagram.	(4)	CO1				
Q.2	What is the purpose of process object? List out properties and functions of process object. Demonstrate few properties and functions with an example.	(4)	CO2				
Q.3	Define exports keyword. Write a node js program which has a power function with 2 parameters and fullname function with 'firstName' and 'lastName' parameters in 'file1.js' file. Calculate power of the given number and print the full name in 'calculate.js file'. (Use Math.pow() to calculate power of numbers).	(4)	CO2				
Q.4	Differentiate readFileSync() and readFile() functions. Write the HTML content for the below table in the myHtmlFile.html then read and display the table on the browser. <div><table><tr><th>Name</th><th>Enrollment</th></tr><tr><td>Karan Patel</td><td>12012021001</td></tr></table></div>	Name	Enrollment	Karan Patel	12012021001	(4)	CO2
Name	Enrollment						
Karan Patel	12012021001						
Q.5	Do as directed: <div><div>1. How buffer class is useful in Node.js?</div><div>2. What is NPM? What is the main functionality of NPM?</div><div>3. Is Node.js multi-threaded or single-threaded runtime environment?</div><div>4. What will be the output of following program:<pre>var http = require('http'); const { URL } = require('url'); http.createServer(function (req, res) { const queryString1 = new URL('https://www.ganpatuniversity.edu:8082/uvpce'); console.log("Host is :-"+queryString1.host); console.log("Host name is :-"+queryString1.hostname); }).listen(4200);</pre></div></div>	(4)	1. CO1 2. CO1 3. CO1 4. CO2				