

GANPAT UNIVERSITY
B.TECH (COMPUTER ENGINEERING/INFORMATION TECHNOLOGY) SEM – V
FIRST INTERNAL EXAMINATION – SEPTEMBER 2020
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	Is Node.js single threaded runtime environment? Explain how it handles concurrency.	CO1	(4)
Q.2	Write a Node.js program to take any positive integer number from command line arguments and print all the factors of that number. For example: >> node example1.js 15 Factors of 15 are 1,3,5,15	CO1	(4)
Q.3	Create the http server, reverse the number assigned to num parameter and print Hostname, search parameters and reversed number on webpage when following URL is accessed. URL: https://www.google.com:11/uvpce?Department=CEIT&num=673	CO2	(4)
Q.4	Write a Node.js program to read content from a text file, calculate number of words and write total number of words in the same text file.	CO1/CO2	(4)
Q.5	Do as directed: 1) How callback function is useful in Node.js? 2) What is the purpose of Buffer class in Node.js? 3) Differentiate event methods on() and once() with an example. 4) How to increase limit of listeners for specific event in Node.js?	CO1/CO2	(4)

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