

NP - 115

I Semester B.A./B.Sc. Examination, May 2022 (NEP – 2021 – 22 and Onwards) COMPUTER SCIENCE Problem Solving Techniques

Time : 21/2 Hours

Max. Marks : 60

Instruction : Answer any four questions from each Part.

PART – A

- I. Answer any four questions. Each question carries two marks. (4×2=8)
 - 1) What are the factors affecting the analysis of algorithms ?
 - 2) What are command line arguments ? I have been been up and a misigked (1)
 - 3) Differentiate between formatted and unformatted input. a manual dislocation (8)
 - 4) What is the difference between '&' and '*' operators in pointers ?
 - 5) Define sorting. Mention any two types of sorting.
 - 6) Define hash search.

PART - B

- II. Answer any four questions. Each question carries five marks. (4×5=20)
 - 7) Explain the various qualitative aspects of a good algorithm.
 - 8) Explain if...else with an example.
 - 9) Write a C program to swap two integers using pointers.
 - 10) What is an array ? How will you input the elements in a two dimensional array ?
 - 11) Write an algorithm to find the gcd of two integers.
 - 12) Explain about keyword searching in a text.

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NP - 115

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111	. An	SW	er any four questions. Each question carries eight marks. (4×8=3	32)
	13)	Ex tim	plain the various asymptotic notations used to represent the running le of algorithm.	8
	14) Write a C program to read a number, reverse the number and chew whether it is a palindrome or not.		ite a C program to read a number, reverse the number and check ether it is a palindrome or not.	8
	15)	a)	Explain switch statement with an example.	4
		b)	Differentiate between while and dowhile loops.	4
	16)	a)	Write an algorithm to check whether a number is prime or not.	4
		b)	Write an algorithm to find the square root of a number.	4
*	17)) Explain selection sort and insertion sort.		8
	18)	Ex	plain binary search technique with an example.	8

PART-B

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 - Explain the various qualifative aspects of a good
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- 10) What is an array ? How will you input the elements in a two dimensional array ?
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