## POKHARA UNIVERSITY

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	Level: Bachelor Semester: Spring Year : 2018 Programme: BE Full Marks: 100 Pass Marks: 45 Time : 3hrs.		
	Candidates are required to give their answers in their own words as far as practicable.		
	The figures in the margin indicate full marks.		
	Attempt all the questions.	•	
1)	Draw block diagram of a digital computer. Explain each component in brief.	7	
))	Define the role of flow chart in efficient program maintenance with its character. Also develop a flow chart to print the Armstrong numbers between 150 to 500.	8	
	How can you declare following variables using suitable data types? Mobile phone numbers, address, body temperature, salary, Also explain each memory occupancy size and range.	. 8	
b)	Why you use "continue" and "break" statement in your program? Explain with suitable example program.	7	
	Differentiate pre-test and post-test loop. Write a program to generate Fibonacci numbers as per user's choice.	7	
b)	Write a program to read a one dimensional array, sort the numbers in ascending order and display sorted numbers.	8	
a)	Write a program to add two 3x3 matrix. Display the sum stored in third matrix.	7	
)	List the major advantages of recursive function. Write a recursive program to generate the 10 terms Fibonacci sequence starting from 2.	8	
)	What are the advantages of using dynamic memory allocation over static memory allocation? Explain with a suitable example program.	8	
)	How can a function return multiple values? Explain with example.	7	
)4	Write a program to sort N numbers in an array dynamically.	7	
)	What is significance of file pointer in file handling? Consider a following structure	8	

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Roll. No.	Name Addi	Address	Faculty	Date Of Birth		
				mm	dd	уу

Write a program to create"student.txt" file to store the above records for 100 students. Also display these records of students who are not from Kathmandu.

- 7. Write short notes on (Any Two):
  - a) Documentation
  - b) void pointer
  - c) Generation of Computers.

2×5