## B.SC. (Information Technology)-I First Semester (Old) 1BIT4 - Developing Programming Logic and Techniques Paper - IV

2. Dray			<b>GUG/W/18/1423</b> Max. Marks : 80	
		2. Draw neat and labelled diagram wherever necessary.	estions.	
1.		EITHER.		
	a)	Computers can understand only machine language (i.e. 0 and 1). Expla	ain. <b>8</b>	
	b)	Explain the event based approach of programming language.	8	
		OR		
	c)	What are the three basic classification of translator? Explain them.	8	
	d)	What is the rule of linker and loader during the execution of a program	n. <b>8</b>	
2.		EITEHR.		
	a)	Write an algorithm and draw the flowchart to find the factorial of a give	ven number. 8	
	b)	What is process? Explain various types of process available to solve a	problem. 8	
		OR		
	c)	Write an algorithm and draw a flowchart to convert temperature from Fahrenheit.	degree celcius to 8	
	d)	Write a note on complexity of an algorithm.		
3.		EITHER.		
	a)	Explain the hierarchy of operators? List the precedence of arithmetic of	operators. 8	
	b)	Write a note on following with proper syntax and example.  i) If-Statement ii) Nested if statement.	8	
		OR		
	c)	Define loop? Explain various types of loops supported by high level la	anguage. 8	
	d)	What is the use of exit and break statement in programming language.	8	
4.		EITHER.		
	a)	Write an algorithm/pseudo code to find longest element of an given are	ray. 8	

b) What are the different methods of sorting on array? Distinguish between internal and 8 external sorting. OR Write an algorithm/pseudo code to find the reverse of an array. 8 c) d) How we can represent a matrix using two dimensional array? Explain with example. 8 5. Solve all questions. 4 a) Differentiate between interpreter and compiler. b) What are the advantages and disadvantages of algorithm. c) Differentiate between if-else and switch statement. d) What are the different types of arrays supported by high level languages.

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