Bachelor of Computer Application (B.C.A.-I) (CBCS) First Semester CBCS

UBCAT104 – Programming Tools and Techniques Paper – IV

P. Pages: 2 Time: Three Hours				GUG/W/18 * 3 8 3 1 * Max. Max. Max. Max. Max. Max. Max. Max.	
	Note	es :	1. 2. 3.	All questions are compulsory and carry equal marks. Draw neat and labelled diagram and use supporting data wherever necessary and vague answers and write specific answer related to questions.	essary.
1.	Eith	er :			
	a)	Wl	hat is	s translator? Explain compiler in detail.	8
	b)	Ex	plair	n Machine level language in detail.	8
				OR	
	c)	Differentiate between compiler and interpreter.			
	d)	Wı	rite n	notes on :	8
		i)	Li	nker ii) Loader	
2.	Either:				
	a)	Wl	hat is	s problem and process analysis? Explain.	8
	b)	Wl	hat is	s algorithm? Write an algorithm to add three numbers.	8
	OR				
	c)			re different symbols used to draw a flow charts? Explain them. Also drawart to interchange values of two variables.	w a 8
	d)	Ex	plair	n term complexity of algorithm. Also explain Big – O – Notation.	8
3.	Eith	er:			
	a)	W	hat is	s an identifier? What are rules' of naming identifiers?	8
	b)	Dr	aw f	lowchart and write an algorithm to find factorial of given number.	8
	OR				
	c)	Ex	plair	different types of operators also explain their precedence.	8
	d)	Dr	aw a	flowchart and write an algorithm for finding largest among the three nu	mbers. 8

4. Either:

5.

c)

d)

What are datatypes? Explain.

Write an algorithm to add two matrices or array.

8 a) Draw a flowchart and write an algorithm to find largest element of an given array. What is Sorting? Write an algorithm to sort an array in ascending order. 8 b) OR What is an array? Explain Single – Dimensional array. 8 c) d) What is Modular Programming? Explain its advantages of using it. 8 Solve all the questions. What are characteristics of Good Programming Language? 4 a) b) Explain Pseudo Code in brief.
