Printed pages: 02								S	Sub Code:RCA101					
Paper Id:		214101		Roll No:										
			MCA	4		l			Į.					
		(SEM	II) THEORY EXA	MINATIO	ON 2	018-1	19							
Tima	3 Hour		ONCEPTS & PRIN	ICIPLES	OF P	ROC	GRA	MM			Mar	ka.	70	
1 ime.	3 Houl	rs —							101	ai 1	viur	KS.	70	
Note:	Note: 1. Attempt all Sections. If require any missing data; then choose suitably.2. Any special paper specific instruction.													
	SECTION A													
1.	Attempt all questions in brief.							$2 \times 7 = 14$						
	a. What is cache memory?													
	b.	Difference between application software and system software.												
	C.		net of Thing IoT?											
	d. e.	Define variable	e and constant. lean by Static and dyn	namic scor	ne.									
	f.	What is a list?	ican by Static and dy	namic scop	<i>.</i>									
	g.	What are linker	and loader?	N B										
2.	Attempt any three of the following:						$7 \times 3 = 21$							
	a.	What is a digital computer? Explain the various types of Input and Output												
	devices.b. What is an operating system? Explain the function of operating systemc. What is an Algorithm? Write an algorithm to swap two variables with							tina	CVC	tam				
										ısin	g			
	third variable.													
	d.		ray? Write an algorit			he ad	lditic	on of	3*3	3 ma	atrix	es.		
	e.	Explain Inhe	ritance with its advar	itage in det	tails.									
SECTION C														
3.	Atten	ipt any <i>one</i> par	t of the following:						7	x 1	= 7			
	(a)	•	ory hierarchy of comp				s.							
	(b)		version of following	number sys	stem.									
		` '	1011011) ₂ to () ₁₀ 58) ₀ to () ₂											
		, ,	169) to () ₁₀											
		(iv) (A	24BC)6 to ()2											
4.	Attempt any one part of the following:					7 x 1 = 7								
	(a)	-	wo following term in	details.										
			data Analytics.	a 4 T DV	ш									
		()	fference between Lindroid operating system		IIX.									
		. ,												
	(b) What is Cloud Computing? Explain Cloud Computing and its benefits.													

5. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) What is Flow chart? Explain the various component of flow chart. Draw a flow chart find a greater number between three unequal numbers.
- (b) What is programming language? What are the attributes of good language? Explain different type of computer language.

6. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) What do you mean by recursive sub program? Discuss with a suitable example.
- (b) Write notes on the following: (i) Problem solving approach. (ii) Virtual Architectures.

7. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) What do you mean by object oriented programming? Explain the feature of object oriented programming.
- (b) Explain following in details:
 - (i) Abstract Data Type.
 - (ii) Message Passing.
 - (iii) Green Computing.