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Seat	
No.	.5

[5668]-143

S.E. (Electronics/E&TC) (II Semester) EXAMINATION, 2019 COMPUTER ORGANISATION

(2012 PATTERN)

Time: Two Hours

Maximum Marks: 50

- **N.B.** :— (i) Neat diagrams must be drawn wherever necessary.
 - (ii) Figures to the right indicate full marks.
 - (iii) Your answers will be valued as a whole.
 - (iv) Use of logarithmic tables slides rule, Mollier charts, electronic pocket calculator and steam tables is allowed.
 - (v) Assume suitable data, if necessary.
- 1. (a) What is Bus ? Explain single bus structure in an architecture. [6]
 - (b) Represent $(182.1875)_{10}$ in single precision floating point format. [6]

Or

2. (a) Compare RISC and CISC processor.

[6]

(b) Explain Booths algorithm with example.

- [6]
- 3. (a) Explain with neat diagram single bus organization. [6]
 - (b) Draw and explain typical DMA block diagram and explain cycle stealing. [6]

P.T.O.

4.	(<i>a</i>)	Explain the complete control sequence for execution of A	DD
		(R3), R1 Instruction.	[6]
	(<i>b</i>)	Explain daisy chaining method of resolving bus priority	in
		multiprocessor configuration.	[6]
5.	(a)	Compare associative and set-associative mapped cache.	[6]
	(<i>b</i>)	Explain memory hierarchy of Computer System.	[7]
		Or 26	
6.	(a)	Write a note on virtual memory	[6]
0.	, ,		
	(<i>b</i>)	Explain cache mapping technique.	[7]
7.	(a)	(a) Explain the minimum mode signals and maximum mode s	
		of 8086.	[7]
	(<i>b</i>)	Explain the function of the following pins of 8086:	[6]
		(i) RESET	
		(ii) M/IO bar	
		(iii) LOCK.	
		(iii) LOCK. Or	
8.	(a)	Explain interrupt structure of 8086 processor.	[6]
.			
	(b)	Draw the flag structure of 8086 and explain operation of e	
		flag.	[7]