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Roll No. ....

**322712(22)**

APR-MAY / NOV-DEC

**B. E. (Seventh Semester) Examination, 2020**

**(Old Scheme)**

**(CSE Branch)**

**PARALLEL PROCESSOR & COMPUTING**

**Time Allowed : Three hours**

**Maximum Marks : 80**

**Minimum Pass Marks : 28**

**Note : Solve all questions. Part (a) is compulsory for all. Solve any two from (b), (c) and (d).**

1. (a) Difference between parallel processing and distributed processing. 2

- (b) Explain parallelism in uniprocessor systems. 7

[ 2 ]		[ 3 ]	
(c) Explain Flynn's taxonomy.	7		
(d) Explain various cache coherence protocols.	7		
		<b>Unit-IV</b>	
<b>Unit-II</b>			
2. (a) Define data and resource dependency.	2		
(b) Explain efficiency and throughput for four stage pipeline processor.	7		
(c) Describe VLIW computers.	7		
(d) Draw a functional diagram of CRAY-1 architecture. Specify its hardware & software specifications.	7		
		<b>Unit-V</b>	
<b>Unit-III</b>			
3. (a) Draw a 3-cube network.	2		
(b) Explain tree structured dictionary machine.	7		
(c) Explain shear sort algorithm with example.	7		
(d) Write down the sequential selection algorithm. Given the following list of elements :			
6 4 5 6 7 1 5 3 8 2 1 0 3 4 5 6 2 1 7 1 4 9 5			
Find the 5th, 9th and 13th smallest element using q = 5.	7		