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Name: Laghan Maheshwarii Raywo: 53
Panel: A
Tomas, 1
Trans. Accommental (PP)
Theory Assignment-1 (PP) Computing Computing three different domains?
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three different domains
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Research labe
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11201 Page 10 Page 11 TINO IN INSCRIPTION
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Sterms and vicate new materials.
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ii) media and Entertainment: High feoglasmance computing is used to edit feature films, sunder mind-blowing special effect and stoceam live events around the world.
III) francial sowices: High poolonmance computing is used to truck real—time stock trues and automate
track real-time stock trends and automate
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is) Oil and gas: High poop Dimance computing is used to more orientally charle to deall you new wells and to hop boost production from existing wells.
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of 2 Explain the Dichostomy of poemlel computing platforms. And A dichotomy is based on logical and physical capparaneo of parallel platforms. The logical organization rejects to a totogrammen's view of the photosim while physical organizations. Hopers to the actual hard wave organization of platform. Two critical components of parallel computing from a fragrammy parsfectives are ways of expossing prevallel tasks (control structure) and mechanism for specifying interaction between those tasks. ○ Control Staurture of Parallel platforms.

—> Each personam in a set of perograms can be viewed as one parallel task -> Individual instructions within a perogram can be viewed as parallel tasks. De Communication model of Powallel platforms.

There are two primary forms of data exchange between fortable tasks — accessing a shared data space and exchanging messages. Q3 Explain Mapping Techniques and Parallel broggaming Models Ans - Static Mapping distribute tasks among perpenses paint to the execution of algorithm. Dynamic mapping distribute whork among processes during execution of algorithm. Dynamic mapping apply to.

-> Parallel perogramming introduces additional sources of comple would number at to perogeram at lowest level not only would number of Instruction executed increase, but We would also need to manage explicitly execution of thousands of perocessors and cooldinate millions of interproperson interactions. Hence, absteraction and modulewity are atteast as important as in sequential perogramming If not write report in totail and modification if Ans faculted bubble sout is a favalled implementation of the classic Bubble Sout algorithm Concept of parallelism inof line by line sequentially main banefit of this In parallel bubble soot, we divide sorting of unsorted into two phases - odd and every-When sit is odd phase, we compare element cut index of and SD on. In even phase, we compare index observant with index 2 element and SO Dy. In case of multi-core perocessors, both phases can occur Simultaneously, which is known as parallel implementation.