Total No. of Questions : 4]

SEAT No. :

PD-265

[Total No. of Pages : 2

[6411]-40

B.E. (Computer Engineering) (Insem.)

HIGH PERFORMANCE COMPUTING

(2019 Pattern) (Semester - VIII) (410250)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates :

1) ***Answer Q. 1 or Q. 2, Q. 3 or Q. 4***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) What are types of dataflow execution models? **[6]**

b) Explain SIMD, MIMD and SIMT architectures. **[5]**

c) Write a short note on Level of Parallelism. **[4]**

OR

Q2) a) Explain N-wide Superscalar Architectures. **[6]**

b) Explain Cache coherence in multiprocessor system. **[5]**

c) What are the application of parallel computing? **[4]**

Q3) a) Explain any three-decomposition technique with example. **[6]**

b) Explain classification of Dynamic mapping techniques. **[5]**

c) What are characteristics of task and interaction? **[4]**

OR

P.T.O.

Q4) a) Explain with example (any two) : **[6]**

i) Recursive decomposition

ii) Data decomposition

iii) Exploratory decomposition

b) Explain different schemes for Static Mapping. **[5]**

c) Give the characteristics of task. **[4]**

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