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DECEMBER 2014 P/ID 17534/PCE16

Time : Three hours Maximum : 100 marks PART A — $(6 \times 5 = 30 \text{ marks})$ Answer any SIX questions. 1. Explain Minsky's conjecture. 2. Explain the linear array network. 3. Explain EREW. 4. Explain parallel prefix on a list. 5. How to find the maximum of an array? 6. Explain the theory of odd-even merging. 7. Explain the time and comparator requirements of biotonic sorting. 8. Explain not-smaller-than search. PART B — $(7 \times 10 = 70 \text{ marks})$ Answer any SEVEN questions. 9. Explain folded and incomplete hypercubes.

- 10. Explain any two dynamic networks.
- 11. Explain any two computational models.

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- 12. Discuss about NC problems.
- 13. Explain finding roots of trees in a forest.
- 14. Explain relating sequential time with parallel space.
- 15. Explain the concept of merge splitting sorting in detail.
- 16. Write a detailed note on Fourier transform on butterfly and cube.
- 17. Discuss about pattern matching.
- 18. Explain summation of vector components in detail.

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