

**B.Sc. (I. T.) Sem. - V (CBCS - 2015 Course) : WINTER - 2018**

**SUBJECT: PARALLEL AND DISTRIBUTED COMPUTING**

Day: Wednesday  
Date: 21/11/2018

**W-2018-1078**

Time: 10.00 a.m. to 01.00 p.m.  
Max. Marks: 60

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**N.B:**

- 1) Attempt **ANY SIX** questions.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat, labeled diagram **WHEREVER** necessary.
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- Q. 1** What do you mean by resource-broker in grids? Explain various functionalities of resource broker. **(10)**
- Q. 2** State and explain different data handling clauses. Also mention the importance of data handling clauses in message passing environment. **(10)**
- Q. 3** Explain different paradigms for parallel programming. **(10)**
- Q. 4** Explain Grid Computing and functionality of Grid Middleware with diagram. **(10)**
- Q. 5** Explain the MCT algorithm. Give at least two applications where MCT algorithm can be used. **(10)**
- Q. 6** Explain different performance metrics for parallel systems. **(10)**
- Q. 7** What is Cloud Computing? Mention different Cloud Computing Services with suitable examples of each. **(10)**
- Q. 8** What do you mean by process scheduling? Explain following scheduling algorithms in brief: **(10)**
- i) FCFS
  - ii) SJF
  - iii) Round Robin

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