B.Sc. (I. T.) Sem. - V (CBCS - 2015 Course) : SUMMER - 2019
SUBJECT: PARALLEL AND DISTRIBUTED COMPUTING

Day: Wednesday   Time: 02.30 p.m. to 05.30 p.m.
Date: 08/05/2019   **S-2019-1280**   Max. Marks: 60

N.B:
1) Attempt **ANY SIX** questions.
2) Figures to the right indicate **FULL** marks.
3) Draw neat, labeled diagram **WHEREVER** necessary.

Q. 1   Explain the following MPI routines in brief: **(10)**
      i)   MPI_init
      ii)   MPI_finalize

Q. 2   Differentiate between cluster computing Vs Grid Computing Vs Cloud   **(10)**
Computing.

Q. 3   Explain various OpenMP clauses. Write "Hello World!" program in   **(10)**
C/FORTRAN using OPENMP.

Q. 4   Give Flynn's classification for multiprocessor architecture. Draw suitable   **(10)**
diagram to explain each architecture.

Q. 5   Write a short note on Job submission in grid.   **(10)**

Q. 6   Explain following architectures with suitable examples: **(10)**
      i)   Client-Server
      ii)   Peer to Peer
      iii)   Master-Slave

Q. 7   What is gridsim? Explain various functionalities of gridsim.   **(10)**

Q. 8   Write short note on types of clouds. Give the distinguishing features of   **(10)**
different cloud types.

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