

**M. SC. (I.T.) SEM. – IV (C.B.C.S. COURSE) (2015 COURSE) :**  
**WINTER - 2017**  
**SUBJECT : ADVANCED COMPUTING PLATFORMS**

Day : **Tuesday**  
Date : **19/12/2017**

Time : **02.30 PM TO 05.30 PM**  
Max. Marks : **60**

**W-2017-0926**

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**N. B. :**

- 1) Attempt **ANY SIX** questions out of **EIGHT**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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- Q. 1** What is cloud computing? Explain the services which can be achieved through cloud computing. (10)
- Q. 2** Write and explain the security issues in cloud computing and how it is safe guard. (10)
- Q. 3** What are Guest, Host, Virtual machine and Hyper – V? (10)
- Q. 4** a) What is Snapshot and Quick migration? (05)  
b) What is desktop Virtualization? (05)
- Q. 5** What are the features of Distributed Systems? How you can relate it to Hadoop? (10)
- Q. 6** State and explain the list of HDFS daemons such as Name Node, Secondary Name Node, Data Node, Job Tracker and Task Tracker. (10)
- Q. 7** Explain the following terms: (10)  
a) Batch Processing  
b) Input Split  
c) Block  
d) Map Reduce  
e) Record Reader
- Q. 8** a) What are Writable Interfaces in Hadoop? Explain every interface with sample example. (05)  
b) Explain the terms: Shuffling, Combiner, Key – value pair. (05)

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