

**B.Sc. (I. T.) Sem. - VI (CBCS - 2015 Course) : WINTER - 2018**  
**SUBJECT: ADVANCED COMPUTING TECHNOLOGY**

Day: Wednesday  
Date: 28/11/2018

Time: 02.30 p.m. to 05.30 p.m.  
Max Marks: 60

**W-2018-1090**

N.B.:

- 1) Answer any **SIX** questions out of eight.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw appropriate diagram **WHEREVER** necessary.

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- Q.1** Explain following cloud computing service models in detail with examples. (10)
- a) PaaS (05)
  - b) SaaS (05)
- Q.2** List out different type of virtualizations? Explain any four in detail. (10)
- Q.3** What are different types of Hypervisors? Explain with the help of architecture diagram and examples. (10)
- Q.4** Answer following questions. (10)
- a) List and explain any 5 services provided by AWS. (05)
  - b) What are some high level cloud security concerns? What different security measures you should apply in cloud? (05)
- Q.5** Use Big Data types to classify Big Data characteristics in details. (10)
- Q.6** Answer following questions: (10)
- a) Why Hadoop is called Big Data technology? Explain how it supports Big Data? (05)
  - b) Explain the three dimensions of Big Data. (05)
- Q.7** Explain Hadoop framework in detail. (10)
- Q.8** Write a short note on: (10)
- a) Horeku cloud
  - b) Serverless computing
  - c) Memory virtualization
  - d) Cloud computing challenges
  - e) Network virtualization

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