

**B.SC. (I. T.) SEM. - VI (CBCS - 2015 COURSE) : SUMMER - 2018**  
**SUBJECT: ADVANCED COMPUTING TECHNOLOGY**

Day: **Saturday**  
Date: **26/05/2018**

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

**S-2018-0966**

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** Discuss about virtualization in cloud and its benefits? Explain different type of virtualizations in details with examples. **(10)**
- Q.2** What are different things we can able to do in cloud computing? What are the benefits of cloud computing, discuss in detail. **(10)**
- Q.3** Explain following models in detail with diagram and examples.
- a)** Client – Server model. **(05)**
- b)** Peer to Peer architecture. **(05)**
- Q.4** With the help of layered architecture discuss in details Big Data classifications. **(10)**
- Q.5** What is Service Oriented Architecture (SOA)? Discuss with the help of architecture diagram. **(10)**
- Q.6** Answer following questions. **(10)**
- a)** Explain public, private and hybrid cloud concepts in detail.
- b)** What is cloud computing? Enlist and explain three service models of cloud computing.
- Q.7** Write a short note on following: **(10)**
- a)** How cloud helps in reducing capital expenditure?
- b)** Any two services provided by AWS.
- c)** HDFS.
- d)** Big Data 3V's (Complementary characteristics of Big Data)
- e)** Big Data challenges.
- Q.8** What is Horeku? Discuss in detail architecture components of Horeku cloud. **(10)**

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