

B.Sc. (I. T.) Sem. - VI (CBCS - 2015 Course) : SUMMER - 2019

SUBJECT: ADVANCED COMPUTING TECHNOLOGY

Day: Friday
Date: 17/05/2019

Time: 10.00 a.m. to 01.00 p.m.

Max Marks: 60

S-2019-1292

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 Big Data applications in following sectors. **(10)**
- a) Private sector
 - b) Internet of Things (IoT)
 - c) Manufacturing
 - d) Retail banking
 - e) Government
- Q.2** Explain pyramid model of cloud computing in detail. **(10)**
- Q.3** What is meant by grid computing? Explain how grid computing works. **(10)**
- Q.4** What is Service Oriented Architecture (SOA)? Discuss with the help of architecture diagram. **(10)**
- Q.5** Answer following questions
- a) Explain public, private and hybrid cloud concepts in detail **(05)**
 - b) Explain the pros and cons of cloud computing. **(05)**
- Q.6** Answer following questions.
- a) Explain snapshot, migration and failover concepts of hardware virtualization. **(05)**
 - b) List out key properties of virtualizations and also list out benefits of virtualizations. **(05)**
- Q.7** Explain Hadoop framework in detail? What are the advantages of Hadoop? **(10)**
- Q.8** Write a short note on following: **(10)**
- a) Security in cloud computing
 - b) Define cloud computing with examples
 - c) Network virtualization
 - d) Google cloud computing services
 - e) Type-I and Type-II Hypervisors

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