

**SSN COLLEGE OF ENGINEERING**  
Department of Computer Science and Engineering  
B.E. Computer Science  
**CS6703 - GRID AND CLOUD COMPUTING**

04 SEP 2017, 8 - 9.30 AM  
Academic Year: 2017-18 ODD

**Unit Test 3**

Max Marks: 50  
Batch: 2014-18

Faculty: Dr. K. Vallidevi / Ms. Y. V. Lokeswari

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**PART A**

$5 \times 2 = 10$

1. List the goals of OGSA architecture. (CO3, K2)
2. What is the difference between Web Service and Grid Service. (CO1, K2)
3. What is the purpose of Factory interface in Grid services. (CO3, K2)
4. Define Trust and Reputation. (CO4, K2)
5. What is the role of a Certification Authority in providing security? (CO4, K2)

**PART B**

40 MARKS

\*\*\*\*\* Answer all 3 Questions \*\*\*\*\*

6. (a) In detail explain the various Trust Models in Grid Computing. (CO4, K2) (10)  
(OR)
- (b) List and explain the basic services of OGSA. (CO3, K2) (10)
7. (a) (i) What is Data Grid? Explain about Data Grid Services. (CO3, K2) (10)  
(ii) Explain about various Grid Data Access Models. (CO3, K2) (5)  
(OR)
- (b) Explain in detail about OGSA Interfaces and its operations. (CO3, K2) (15)  
(P. T. O.)

8. (a) (i) Discuss about Public Key Infrastructure (PKI) and Grid Security Infrastructure (GSI). (CO4, K2) (10)  
(ii) Sketch and explain the OGSA Architecture. (CO3, K2) (5)  
(OR)

- (b) Explain about the following security parameters. (CO4, K2) (15)
- Authentication & Authorization. (2)
  - Single Sign On. (2)
  - Delegation & Privacy. (2)
  - Confidentiality & Message Integrity. (2)
  - Symmetric Key Cryptography. (2)
  - Public Key Cryptography. (2)
  - Digital Signature and Message Digest. (3)

\*\*\* ALL THE BEST \*\*\*

Prepared by

Dr. K. Vallidevi / Ms. Y. V. Lokeswari

Reviewed by

HoD, CSE