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| Seat No. | |
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**B.E. (Computer Science & Engg.) (Semester - VIII) (Pre-revised)
(Old) Examination, November - 2017**

GRID TECHNOLOGY

Sub. Code : 49447

Day and Date : Wednesday, 01 - 11 - 2017

Total Marks : 100

Time : 10.00 a.m. to 1.00 p.m.

- Instructions :**
- 1) Q.4 & Q.8 are compulsory.
 - 2) Attempt any two questions from Q.1, Q.2, Q.3.
 - 3) Attempt any two questions from Q.5, Q.6, Q.7.
 - 4) Figures to the right indicate full marks.

SECTION - I

- Q1) a)** With schematic explain basic structure of GT3 and their base services. **[8]**
- b) What is grid computing? What are the types of grid computing? Explain different topologies of grid computing? **[8]**
- Q2) a)** Explain semantic workflow enactment in geodise. **[8]**
- b) What is autonomic computing? Explain the features of autonomic computing? **[8]**
- Q3) a)** What is RDF? Why RDF is essential in GRID? Explain RDF data model. **[8]**
- b) Define web service and explain the structure of soap and wsdl. **[8]**
- Q4) Write a short note on (Any Three) :** **[18]**
- a) Grid related standard bodies.
 - b) Portal Lab.
 - c) RPC.
 - d) OGSA and OGSI.

SECTION - II

- Q5) a) Explain the role of directory service, producer and consumer in GMA? [8]
b) With neat schematic explain different daemons in condor pool. [8]
- Q6) a) Explain cloud deployment models? Discuss about pros and cons cloud computing? [8]
b) What is virtualization? What are the characteristics of virtualization? Explain foundational issues of virtualization. [8]
- Q7) a) What is storage as a service provider? Explain different aspects of data security. [8]
b) Explain Job life cycle and Job Management in Codor. [8]
- Q8) Write a short note on (Any Three) : [18]
a) SOA.
b) Credential delegation & single sign-on.
c) Client Desktop.
d) Scheduling Paradigms.

