

GANPAT UNIVERSITY
M. Tech SEMESTER-II CE
REGULAR EXAMINATION | April - June 2015
3CE204: GRID & CLOUD COMPUTING

Time: 3 Hours]

[Total Marks: 60

Instructions:

1. Figures to the right indicate full marks
2. Each section should be written in a separate answer book
3. Be precise and to the point in your answer

SECTION-I

Q.1 Answer the following.

- (A) Define the following terms: (5)
- a) High Performance Computing
 - b) Distributed Computing
 - c) Cluster Computing
- (B) What does Virtual Organization mean? Explain its functional objectives. (5)

OR

Q.1 Answer the following.

- (A) Explain key components of Grid Computing Infrastructure. (5)
- (B) Compare the architectural models of Grid and Cloud Computing. (5)

Q.2 Answer the following.

- (A) Define OGSA. Explain the core elements of OGSA Architecture. (5)
- (B) Describe the benefits and challenges of Cloud Computing. (5)

OR

Q.2 Answer the following.

- (A) Define OGSI. Describe the architecture of Open Grid Service Infrastructure. (5)
- (B) Write short note on Resource Management for Grid Computing. (5)

Q.3 Answer the following.

- (A) Describe Volunteer computing and Peer-to-Peer Computing. (5)
- (B) Discuss the basic concepts of Security for Grid and Cloud Platform. (5)

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SECTION-II

Q.4 Answer the following.

- (A) Explain Security Solutions for Grid Computing in brief. (5)
- (B) Write short note on Alchemi as a Grid Computing Framework. (5)

OR

Q.4 Answer the following.

- (A) Discuss various approaches to implement Virtualization. (5)
- (B) Describe Windows Azure for Cloud Computing. (5)

Q.5 Answer the following.

- (A) Write short note on Aneka. (5)
- (B) Explain simulation environment for Cloud Computing. (5)

OR

- (A) Write short note on Internet of Things (IoT). (5)
- (B) Describe the various types of Cloud Computing Deployment models. (5)

Q.6 Answer the following.

- (A) Write Short note on Storage and Network Virtualization. (5)
- (B) Explain Hadoop as an example of PaaS. (5)

END OF PAPER