Exam No:

GANPAT UNIVERSITY

M. Tech SEMESTER-II COMPUTER ENGINEERING

REGULAR EXAMINATION APRIL- JUNE 2016

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) Discuss basic elements of Grid Computing Environment in brief. **(5)**

(B) What does Virtual Organization mean? Explain its functional objectives. **(5)**

OR

Q.1 Answer the following.

(A) Compare the architecture of Grid and Cloud Computing systems. **(5)**

(B) Describe and discuss Grid related technologies in brief. **(5)**

Q.2 Answer the following.

(A) Explain Open Grid Services Architecture in detail. **(5)**

(B) Discuss Resource Management framework for Grid Computing. **(5)**

OR

Q.2 Answer the following.

(A) Define OGSI. Describe the architecture of Open Grid Service Infrastructure. **(5)**

(B) Define Resource management and Discuss Resource Management requirements in brief. **(5)**

Q.3 Answer the following.

(A) Explain Grid Security Infrastructure in detail. **(5)**

(B) Discuss basic security concepts for computing systems in brief. **(5)**

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SECTION-II

Q.4 Answer the following.

(A) Explain various elements of CloudSim with architecture in detail. **(5)**

(B) Write short note on Aneka as a Cloud Computing Framework. **(5)**

OR

Q.4 Answer the following.

(A) Discuss architecture of EyeOS in brief. **(5)**

(B) Discuss Windows Azure for Cloud Computing in brief. **(5)**

Q.5 Answer the following.

(A) Explain Storage and Network Virtualization in detail. **(5)**

(B) Write short note on OpenNebula for Cloud Computing. **(5)**

OR

Q.5 Answer the following.

(A) Write short note on Eucalyptus for Cloud Computing. **(5)**

(B) Describe the various types of Cloud Computing Deployment models. **(5)**

Q.6 Answer the following.

(A) Discuss difference and similarities of Hadoop and Spark in brief. **(5)**

(B) Define Web services. Explain Web services standards in details. **(5)**

END OF PAPER