



B.TECH DEGREE EXAMINATIONS: APRIL 2015

(Regulation 2009)

Eighth Semester

INFORMATION TECHNOLOGY

CSE131: Grid Computing

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. SETI@Home project belongs to which area of interest?
 - a) Cryptography
 - b) Science
 - c) Maths
 - d) Life Sciences
2. Grid computing refers to _____ .
 - a) P2P Computing
 - b) Utility Computing
 - c) Cluster of Clusters
 - d) Both b and c
3. _____ helps to perform parallel computing with shared memory programming semantics.
 - a) OpenMP
 - b) FORTRAN
 - c) PROLOG
 - d) ParallelC
4. _____ is the standard Unix solution for accessing files on remote machines within a LAN.
 - a) Linux
 - b) MPI
 - c) XFS
 - d) NFS
5. _____ portType of OGSI encapsulates the root behavior of the service model.
 - a) Factory
 - b) GridService
 - c) ServiceGroup
 - d) HandleResolver
6. Expand WAS.
 - a) Web Application Script
 - b) Web Application Service
 - c) Web Annotation Server
 - d) Websphere Application Server
7. Fractal image compression is _____.
 - a) Data intensive application
 - b) Procedure intensive application
 - c) Computational intensive application
 - d) All the above

(OR)

- b) (i) Explain about the SOAP technology. (7)
- (ii) Write a short note on Grid applications. (7)

23. a) Explain about the three components of OGSA platform.

(OR)

- b) (i) How have OGSA grids been implemented using GT3? (7)
- (ii) How are Data access and integration services carried out by its working group? (7)
Explain.

24. a) Explain about Globus Software Architecture model.

(OR)

- b) Relate the high level services offered by Globus GT3.

25. a) (i) Outline the history of developments of Cloud Computing. (7)

(ii) What are the major advantages and disadvantages of Cloud Computing? (7)

(OR)

b) Explain how family and corporations get benefitted by using cloud services. (7)

Differentiate between PaaS and SaaS. (7)
