

C.U.SHAH UNIVERSITY**Summer Examination-2018****Subject Name: Advanced Computing****Subject Code: 4TE08AC01****Branch: B.Tech (IT)****Semester: 8****Date: 01/05/2018****Time: 02:30 To 05:30****Marks: 70**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions :**(14)**

- a) What do you mean by distributed system?
- b) What is SMP in cluster computing?
- c) What are massively parallel processors?
- d) What is high availability cluster?
- e) What is fabric layer in grid?
- f) What do you mean by peer to peer system?
- g) What is autonomic computing?
- h) What do you mean by virtualization?
- i) What do you mean by service policy?
- j) Define service registry.
- k) Define commercial data center.
- l) What are disadvantages of cloud computing?
- m) What do you mean by open standards?
- n) What is abstraction in service?

Attempt any four questions from Q-2 to Q-8**Q-2 Attempt all questions**

- a) Define cluster computing. Explain commodity component of cluster **07**
- b) Explain Cluster middleware and SSI in brief. **07**

Q-3 Attempt all questions

- a) What is DSM? Explain MPI and PVM in brief **07**
- c) What are the ways to improve performance in computing? Explain in brief. **07**

Q-4 Attempt all questions

- a) What is grid computing? Explain grid architecture and relationship to other distributed technologies. **07**



- b) Explain Architecture of Legion and Nimrod. **07**
- Q-5 Attempt all questions**
- a) Define service oriented architecture. Explain SOAP, WSDL and UDDI in brief **07**
- b) Explain Semantic web architecture. **07**
- Q-6 Attempt all questions**
- a) What is OGSA? Explain architecture and goal of OGSA. **07**
- b) What is cloud computing? Deployment model of cloud computing. **07**
- Q-7 Attempt all questions**
- a) Explain IaaS, PaaS and SaaS in cloud computing with example. **06**
- b) Explain laws of cloudonomics. **08**
- Q-8 Attempt all questions**
- a) Explain cloud computing for family and community. **07**
- b) Explain role of cloud computing for collaborating on event management and collaborating on project management. **07**

