## CS-8401

# B. E. (Eighth Semester) EXAMINATION June, 2012

(Computer Science & Engg. Branen)

ADVANCE COMPUTING PARADIGM

(Electre-iv)

(CS - 8401)

Time: Three Hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt any five questions. One question from the Unit is compulsory. All questions carry equal matter.

#### Unit - I

- 1. (a) Discuss in detail the architecture of Gold and system.
  - (b) Explain the types of grids and Grid activities briefly.
- 2. (a) Discuss two commercial applications of clusters and grids.
  - (b) Explain cluster programming environment and took briefly, www.rgpvonline.in

#### Unit - II

- 3. (a) Explain quantum states and gates briefly.
  - (b) What is quantum parallelism and explain surrect quantum algorithms briefly.

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		Or .
÷		Explain quantum computing with architecture. 10 What is the power of quantum computing? Discuss its applications. 10
		Unit – III
5.	(a) (b)	Explain the concept of optical computing briefly. 10  Discuss the role of Bottom-up and Top-down approaches in Nano-technology.  Or
6		Discuss the fundamental issues in nano-materials and also discuss the challenges in nano-technology. 10  What is Nano-computing? Explain the nano-information processing briefly. 10  Unit-IV
	(b) (c)	Explain the role of content manager. Describe its various information and relevances in the mobile computing environment.  Give four challenges of mobile computing.  Discuss mobile applications and services.  Or
8.	(a) (b)	Explain Ad hoc and Sensor Networks briefly. 10 Discuss the security issues of Wireless Network that are different from Wired Network. 10 Unit -V
9.	(b)	Explain how cloud computing is different from grid computing or thin clients.  What are three types of cloud services? Give an example for each type.  10  10  10  10  10  10  10  10  10  1

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## Or

- 10. (a) What is cloud computing? Explain briefly with architecture and characteristics.(b) Explain the following:
  - (b) Explain the following.
    - (i) Cloud components
    - (ii) Cloud storage