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Roll No. ...

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 matters

Unit-L

- 1. (a) Discuss in detail the architecture of Goddata 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.

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

†	1.7	Explain quantum computing with architecture.	ΙŪ
	(b)	What is the power of quantum computing? Discuss	its
		applications.	10

Unit-III

١.	(a)	Explain	the co	oncept	of c	ptical compu	iting b	riefly.	10
	(b)	Discuss	the	role	of	Bottom-up	and	Top-do	wn
		approach	nes in	Nano	-tech	nnology.			10

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C)	(4)	Discuss the fundamental issues in nano-materials	anu
		also discuss the challenges in nano-technology.	10

(b)	What	is	Nano-computing	?	Explain	the	nano-
	inform	atio	n processing briefl	у.			10

Unit-IV

-	- Explain	the	role	of	cont	tent	manage	er.	Desc	ribe	its
	vatious	infe	rmati	oa	and	rele	evances	in	the	mol	oile
	computi	ing e	nviro	nrne	ent.						10

- (b) Give four challenges of mobile computing. 5
- (c) Discuss mobile applications and services. 5

Or

8. (a) Explain Ad hoc and Sensor Networks briefly.(b) Discuss the security issues of Wireless Network that are different from Wired Network.10

Unit-V

- 9. (a) Explain how cloud computing is different from grid computing or thin clients.
 - (b) What are three types of cloud services? Give an example for each type.

. rgpvonline.com

(ii)

Cloud storage

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

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