

2E8906	rtuonline.com	Roll No. _____	[Total No. of Pages : 2]
		2E8906	
	M. Tech. II Sem. Back Examination Oct. - 2011		
	Computer Science		
2MCS4.2 High performance Scientific Computing			

Time : 3 Hours

Maximum Marks : 100

Min. Passing Marks : 33

Instructions to Candidates:

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Attempt any **five questions**, Marks of questions are indicated against each questions. Draw neat and comprehensive sketches wherever necessary to clearly illustrate your answer. Assume missing data suitably if any specify the same. Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. a) What are the advantage of scientific computing in practical life ?

b) What are the characteristic of scientific Computing ?

2 a) What are the basic tools used for the mat lab ?
Explain in Brief.

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b) What is IDL? Explain.

3 a) What are the basic elements of AVS ?

b) What do you mean by vector computing ? *Cray - T*

4 a) How we can increase the performance of our computer system by the use of scientific computing.?

b) Explain MIMD computing ?

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5. Explain any scientific visualization architecture application. What is the need of this architecture ?

6. What do you mean by computerized tomography ?
Explain with a any suitable example.

7. Define advection in scientific computing ?

8. Write short notes an any tow.

a) Basic elements of MAT Lab.

b) Memory management in distributed computing.

c) SIMD Computing. *CM-2, Net, MS-1*

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