Total No. of Questions: 6] SEAT No.: P539 [Total No. of Pages : 1

## TE/Insem/APR-139 T.E. (Computer) (Semester - II)

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Time:1 Hour] [Max. Marks											ks : 30
Insti	ructio	ons to the can	ididates:								
	1) Answer the following questions.										
	2) 3)	Figures to the right indicate full marks. Assume suitable data, if necessary.									
Q1)	a) b)	Explain different means of improving efficiency of Algorithm. [5] Explain characteristics of good algorithm? List out the problems solve by the Algorithm? [5]									
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Q2)	a) b)	How to confirm the correctness of Algorithm? Explain with example. [5] Write a short note on algorithm as a technology with example. [5]									
Q3)	a) b)	How does fractional greedy algorithm solves the following knaproblem with capacity 8, Items (I1,I2, I3, I4), profit P=(25,24, and weight w=(3,2,2,5).  Explain the concept of PMI and prove the correctness of an algorithm find factorial of a number using PMI.									[5,40] [ <b>5</b> ]
Q4)	a) b)	OR Write and explain Huffman Code Generation Algorithm. Explain Tail recursion with suitable example?									[5] [5]
Q5)	a)	I	orrect seq Tob Profit Deadline	J1 20	ze for J2 15 2	jobs J3 10	using J4 5	g followi J5 1 3	ng inst	ances,	[5]
b) Write a short note on Artificial Neural Network.  OR											[5]
Q6)	a)	Explain dynamic programming strategy? Enlist few applications whi									which [5]
	b)	Explain basic steps of genetic algorithm.									[5]