

## Mid Semester Examination

## Organizational Behavior

Sem-4 ", B.1ech Ful	Full Marks-20	
Branch-IT, CSE, CE, MME, ETC, PE, ME	ne- 2 hours	
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Answer Question No. 1 which is compulsory and any three from the rest		
1. Answer the following questions.	[1x5]	
a Define Organizational Behavior.		
b. What are the steps of social learning?		
Why ERG theory is named as frustration-regression theory?		
d. What is the difference between "Hallo Effect" and "Stereotyping" perceptual	error?	
e The tripartite division of personality into id, ego, and super ego comes under	theory of	
Personality and who developed this theory? Some feed		
2. a Compare between custodial and collegial model.	[2.5]	
The What are the Opportunities and challenges for OB managers in managing world	kforce diversity? [2.5]	
3. a) Compare between classical and operant conditioning theory.	[2.5]	
b) Discuss in brief about the type theory of personality.	[2.5]	
4. What is perception? Explain the perceptual process model.	[1+4]	
5.)a) State the applicability of motivation in an organization.	[3]	
b) Discuss the Limitation of Maslow's Need hierarchy theory of Motivation.	[2]	
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## Veer Surendra Sai University of Technology Mid Term Examination Feb 2018 4th Semester B. Tech. (CSE, IT) Sub: Design & Analysis of Algorithm



Max. Marks: 20

Time: 2Hrs.

## Note: Q. No. 1 is Compulsory. Answer any three from the rest of the questions

1. Answer all: (a) Is  $2^{n+2} = O(2^n)$ ? Is  $2^{2n} = O(2^n)$ ? Justify.

Differentiate between Performance Measurement and Performance Analysis.

f for all of these cases. (i) Binary search (ii) Merge sort (iii) Quick sort (BEST CASE) (d) Matrix multiplication.

(d) What is the purpose of Big Oh notation? Arrange the following functions in increasing order: n log n, (log n)<sup>3</sup>, 2<sup>n</sup>, log n.

What are prefix codes? Explain with example.

2. (a) Explain the characteristics of a good algorithm.

(b) Develop a Huffman code for the input string "a fast runner need not fear the dark". [3]

(a) Find the asymptotic bound for the following recurrence: [2.5X2]

T(n)=-1, if  $n \le 4$  $T(n)=-2T(\sqrt{n}) + \log n$ , if  $n \ge 4$ 

(b) Solve the following recurrence relation using recursion tree method

 $T(n)=3T(n/4) + cn^2$  (T(n)=1 for n=1)

Write the algorithm for Quicksort and find out its average case and worst case time complexity. [5]

(a) Find the optimal solution for the fractional knapsack problem

[2.5X2]

Given:  $I = \{I_1, I_2, I_3, I_4, I_5\}$  w=  $\{5, 10, 20, 30, 40\}$  v=  $\{30, 20, 100, 90, 160\}$  and the knapsack capacity, W=60.

(b) Explain the basic concept of a divide-and-conquer algorithm.

(a) Find an optimal parenthesization of a matrix-chain product whose sequence of dimensions is <2, 3, 5, 4, 2 >.

(b) Determine the longest common subsequence of <1,0,0,1,0,1,0,1 and <0,1,0,1,1,0,1,1,0>.

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