Indian Institute of Information Technology Sri City, Chittoor

Name of the Exam: Overview of Computers Workshop

Duration: 90) mins	Max. Marks: 40
Instructions:		
 Closed book exam, no notebooks, no formula sheets, no electronic gadgets. Calculator is allowed. 		
Answer the fo	illowing questions:	
Q1. [10 Marks	s] Explain different types of ROM.	
a. b. c.	ellular reuse of N = 12 implies a co-channel reuse ratio (Q) of 3 4.58 6 6.24	of: 1M
	vireless system has a combination of FDMA with 200 KHz bas distributed sequentially to 16 users.	ands. Further, each
	How many unique FDMA bands exist? How many unique users can be served using a combination FDMA?	1M n of TDMA and 3M
x(t) = 1-t 0	atlab program for generating the following function for 0 < t < 1 for 1 < t < 2 or 2 < t < 3 for elsewhere	(3M)
iv. Give a sho	rt explanation of a channel in wireless communication	(2M)

Q3. [10 Marks] i.How long does it take a packet of length 4000 bytes to propagate over a link of distance 1500km, propagation speed 2.5x10 ⁸ m/s, and transmission rate 10Mbps? [2M]			
(a) 6ms			
(b) 60s			
(c) 0.6s			
(d) 6s			
ii.Which of the below delay depends on the average number of packets arriving? [1M]			
a) Propagation b) Queuing c) Transmission d) Processing			
iii. Queuing delay is the time taken to transmit all the bits of the packet into the Processing delay is fixed. [1M			
a) True b) False			
iv. Explain the below layer functionalities [3 *1 = 3M]		
a) Session Layer b) Network Layer c) Application Layer			
v. Define Message, Segment, Datagram and Frame			
vi. Write your understanding of DoS in a line or two			
Q4. (a) Write the assembly language program to MULTIPLY the numbers 26H and 5H stored the registers R5 and R7, respectively and save the value in register R6. [5M]			

[5M]

Draw the internal block diagram of 8085

(b)