

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY PATNA

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No. Date.

Routine for Institution of Engineers Candidate

The students appearing in Section B Examination (Computer Science and Engineering) of The Institution of Engineers (India), 8, Gokhale Road. Kolkata-700012 at NIT Patna are directed to report to CSE office, NIT Patna at 10 AM for Laboratory experiments to be carried out at Network System Lab, Ground Floor, CSE Department from 23.11.2020 to 27.11.2020 are as follows:

Sl.No.	Date	Laboratory Experiment				Held at Laboratory	
1	23.11.2020	Maintain an array whose size can be known					Network system Lab
		during the execution time of the program only.					
		Implement such an array, initialize it/ and					
		display its					
2	23.11.2020	Develop a		Network system Lab			
		two other					
		odd-numbered positions are now in one list (in					
		the same relative order as before) and those from even-numbered position are in another new					
		list	-mumbered				
3	24.11.2020	Find exped	cted numb	Network system Lab			
		and excha	nges for b	-			
		compare the	hem with				
		operations					
		follows: 8					
4	24.11.2020	Define a node with the following structure:					Network system Lab
			Data				
		Read n ele					
		linked list:					
			ert a node				
		(b) Delete a node containing some elements(c) Search a node for a given element.					
5	25.11.2020			Network system Lab			
6	25.11.2020	Design on paper a full 18 X16 barrel shifter. Design o 4-bit, function arithmetic unit that will					Network system Lab
		meet the fo		ř			
		S2	S 1	S0	Function		
		0	0	0	2A		
		0	0	1	A+B		
		0	1	0	A+B		
		0	1	1	A-1		
		1	0	0	2A+1		
		1	0	1	A+B+1		
		1	1	0	A+B+1		
		1	1	1	A		

7	26.11.2020	Design a 4-bit synchronous counter and study its function	Network system Lab
8	26.11.2020	Design a 4-bit asynchronous counter and study its function	Network system Lab
9	27.11.2020	To draw the system flow-chart showing the following steps in processing customers sales order. a) Open the mail b) Make an entry in an 'Order log' recording the receipt of each order c) Edit the order for missing or erroneous information; if no error go to (e), else go to (d) d) Add any needed information e) Check the customer's credit rating. f) Forward orders from customers with bad credit ratings to the credit manager. If he rejects it, the party is to be intimated; otherwise go to (g) g) Forward orders-from customers to the Key punch department h) Place the safes order in a file i) Sort the sales order cards using computer into item number sequence j) Process the sales order cards against the inventory master file producing an updated master file and a printed listing of each transaction.	Network system Lab
10	27.11.2020	To describe in detail a pay roll data processing application giving inputs, outputs and files required. Draw a system flow-chart and show the structure of input documents and output reports.	Network system Lab

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