

FINAL SCHEME
0100CST308062401

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				Total Pages: 2	
APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY					
Sixth Semester B.Tech Degree (R, S) Examination May 2024 (2019 Scheme)					
Course Code: CST 308					
Course name: COMPREHENSIVE COURSE WORK					
Max. Marks: 50				Duration: 1Hour	
Answer key					
Instructions:		<i>(1) Each question carries one mark. No negative marks for wrong answers</i> <i>(2) Total number of questions: 50</i> <i>(3) All questions are to be answered. Each question will be followed by 4 possible answers of which only ONE is correct.</i> <i>(4) If more than one option is chosen, it will not be considered for valuation.</i> <i>(5) Calculators are not permitted</i>			
1.	a) True,True				
2.	d) 4				
3.	d) None of these				
4.	c) 11				
5.	Give full mark for this question to all students [Node labels are missing in QP]				
6.	c) 190,60,90,85,88				
7.	b) Stack				
8.	c) while(temp->link!=NULL) temp=temp->link				
9.	a) Separate chaining				
10.	c) O (m+n)				
11.	b) Better average response time				
12	b) free hole from a set of available holes				
13	a) 5, 142				
14	c) 8				
15	b) 5				
16	d) None				
17	a) enough total memory exists to satisfy a request but it is not contiguous				
18	Give full mark for this question to all students [Right answer not present in the given options]				
19	c) Banker's Algorithm				
20	d) Operating System information				
21	c) Cache memory				
22	b) Occurs when there are insufficient resources to execute instructions simultaneously				
23	d) Logical hazard				

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24	b) Data transfer between registers within the CPU
25	b) 2 ns
26	d) Both (a) and (b)
27	b) Implied addressing mode
28	a) Complex Instruction Set Computer
29	b) 1110
30	a) Fetch, Decode, Execute
31	c) $(1+01)^*(\epsilon+0)$
32	a) 4 states
33	b) (i) & (iii)
34	d) Compliment
35	a) Both L1 and L2 are Context Free
36	b) Generates all the sets accepted by the class of Turing Machines
37	a) Every Regular Grammar is CFG
38	c) Both (a) and (b)
39	a) DFA – 4, NFA – 3
40	c) Recursive
41	a) 1NF
42	c) Q and R
43	d) List of student name whose mobile number contain two 0's
44	b) For each class with more than 3 students, finds the age of the youngest student who has enrolled in this class.
45	a) 3
46	b) Non-leaf nodes have pointers to data records.
47	Give full mark for this question to all students [Considered due to time constraints]
48	d) (i) FALSE and (ii) FALSE
49	a) DELETE
50	b) 2