Total 1	No. of Questions – [3]	Total No. of Prir	nted Pages:2
G.R. N	lo.	PAPER CODE	223-212(ESE)
	May 2023 (ENDSE	CM) EXAM	
S.Y.	B. TECH. (AI & DS) (AY 2022	2-23 SEMESTER	- II)
COU	RSE NAME: ADVANCE DAT	TA STRUCTURE	;
COU	RSE CODE: ADUA22202		
	(PATTERN 2	020)	
Time:			. Marks: 30]
1) U 2) U	structions to candidates: se of scientific calculator is allowed se suitable data where ever require ll questions are compulsory		
Question No.	Question Description		Max. Marks
Q.1	a)) How splay tree is beneficial over o adjusting trees? Justify your answer y	0	elf [4]
	b) Build Red Black tree from given Da 52,9,67,45,22,3,46,12,78,33	ta .	[6]
	OR		
	c) Perform following operations on B t Insert: 45,12,34,2,56,33,11,67,98,47, Delete: 11,56		[6]
Q.2	a)) Create Standard (Multiway) trie fro { big,bihar,bird,birth,song,sound,soap And convert it to compact trie.		[4]
	b)) Apply Knuth Morris Pattern match To solve the example given below. Text: abcbababcabbcaabcbacbaa	ning algorithm	[6]
	Pattern: abbcaa		
	c) Compare and Contrast Brute force matching algorithm with example.	with Boyer Moore patter	rn [6]

a) Discuss different file opening modes in C++ with suitable example.		
b) Data of student records with fixed size with large amount, which type of file system you use to store this data and why?	[6]	
Justify your answer.		
OR	[6]	

c) Discuss the issues and solutions with example to handle fixed [6] length and variable length records in file handling.

Q.3