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(a) Covert the following infix expression to post fix expression: a+h*c-d^c%f*g+h-1 171 (b) Discuss with binary tree. Explain the different operation of binary tree. [7] 5. (a) What is B-Tree? Create B-Tree of order 5 with the alphabets arrive in the sequence as follows: [7] agbkdhmjeslrxclntup (b) Perform Quick sort for following set: 66 33 40 20 50 88 60 11 77 30 45 65 [7] Define the hashing. How do Collision happen during 6. Hashing? Explain the different technique resolving of [7] collision. https://www.sdsuvonline.com [7] (b) What do mean by message authentication? Explain short Notes (any four): 7. $[3\frac{1}{2}\times 4=14]$ Sparse arrays. Application of stack. (c) Priority Queue. (d) Hashing. Huffman Algorithm.

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[2]

[P.T.O.