| | | Subject:- A.T. | SEXPERIMENT / Tutorial / Assignment No.:- 5 | Page :- |
|-----|----------|--------------------------------|---|---------------|
| | * | Write a segula | x expression for the follow | owing. |
| ··· | ·> | The set of all 1* + (1* 01* 0) | strings with an even no. c | of o's |
| n n | | | trings of even length (length. | |
| | | | strings divisible by 2. | |
| | | the graph and the second | | |
| | | | Strings containing exactly to | 1886 |
| - | 5. | The set of all s (0+1)*0 | signs divisible by 2. | |
| | 6. | The set of all s | txings where third last symb | 20 15 1. |
| | 7. | The set of strin | | estring |
| | 8. | Binasy numbers | | Samo diast |
| - 3 | -> | a (0+1)* 0+1(0 | 0+1)* | |
| | 9. | b's. | a's & b's that contain no those | e consecutive |
| | <i>→</i> | (a+ba+bba)*+ | b+ bb | |

| Subject: A. T Experiment-Mutorial Assignment No.: 5 Page: 2 10 TSinasy number that are twice an old number (i.e) binasy representation of 2n where n is an edd no. (0+1)*10 11. TSinasy String contains the sequence Oll. (1+0)* 01(0+1) 12. Rinesy string Contains substrings all flot (1+0)* 01(0+1)* + (0+1)* 101(0+1)*. 13. Theory strings does not contain substring allo 1* (0* (1+11)* 0* * 14. Sinasy strings has an even number of 0's f an even number of 1's. - (00+1)* (01+10) (00+11)* (01+10) (00+11)*. 15. Rinesy strings (autaining at least one of atleast or 10. (0+1)* 00(0+1)* 11(0+1)* + (0+1)* 11(0+1)* 00(0+1)* 16. Rinesy strings with atleast two accurrences of atleast two consecutive is the two accurrences not using adjacent. (0+1)* 11 (0+1)* 0 (0+1)* 11 (0+1)* 17. Strings aver farbics in which the fourth symbol from beginning in a c (a+b+c)* | | | | |
|--|------|--|--|---------------------------------------|
| 11. Binary string contains the sequence Oll. (1+0)* 01 (0+1) 12. Rinary string (ontains substrings clof 101 (1+0)* (1+0)* + (0+1)* 101 (0+1)* 13. Binary strings does not contain substring 0110 1* (0* (1+11)* 0* * 14. Binary strings has an even number of 0's f an even number of 1's. (00+1)* (01+10) (00+11)* (01+10) (00+11)*)* 15. Binary strings (ontaining at least one 00 f atleast on 0) (0+1)* 00 (0+1)* 11 (0+1)* + (0+1)* 11 (0+1)* 00 (0+1)* 16. Binary strings with atleast two occurrences of atleast the censecutive is the two occurrences not using adjacent. (0+1)* 11 (0+1)* 0 (0+1)* 11 (0+1)* 16. Strings over fa, b, c? in which the fourth symbol from begining in a c (0+1)* 0 (0+1)* (0+1)* (0+1)* | | Subject:- A T Experiment /- Tutorial / Assign | nment No. :- 5 | Page :- 2 |
| 11. Binary string contains the sequence Oll. (1+0)* 01 (0+1) 12. Rinary string (ontains substrings clof 101 (1+0)* (1+0)* + (0+1)* 101 (0+1)* 13. Binary strings does not contain substring 0110 1* (0* (1+11)* 0* * 14. Binary strings has an even number of 0's f an even number of 1's. (00+1)* (01+10) (00+11)* (01+10) (00+11)*)* 15. Binary strings (ontaining at least one 00 f atleast on 0) (0+1)* 00 (0+1)* 11 (0+1)* + (0+1)* 11 (0+1)* 00 (0+1)* 16. Binary strings with atleast two occurrences of atleast the censecutive is the two occurrences not using adjacent. (0+1)* 11 (0+1)* 0 (0+1)* 11 (0+1)* 16. Strings over fa, b, c? in which the fourth symbol from begining in a c (0+1)* 0 (0+1)* (0+1)* (0+1)* | 10. | Binasy number that are twice | an old numbe | 8 (i.e.) |
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| 13. Binary strings does not contain substring 0110 1* (0* (1+111)* 0* 1* 14. Binary strings has an even number of 0's f an e | 12. | Kingay String Contains Sub | strings 010 f | 101 |
| 13. Binary strings does not contain substring 0110 1* (0* (1+111)* 0* 1* 14. Binary strings has an even number of 0's f an e | -> | (1+0) + $(0+1)$ * + $(0+1)$ * | 101(0+1)* | |
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| 16. Binary strings with atteast two occurrences of atteast the consecutive is the two occurrences not using adjacent. 17. Strings over fa, b, C's in which the fourth symbol from begining in a c (a+b+d)(a+b+c)(a+b+c)c | 4. | | (0) (00 (10) | NEZEKE. |
| 16. Binary strings with atteast two occurrences of atteast the consecutive is the two occurrences not using adjacent. 17. Strings over fa, b, C's in which the fourth symbol from begining in a c (a+b+d)(a+b+c)(a+b+c)c | 18. | Binary Strings (on fairing of 10 | east one soul | Lr i |
| 16. Binasy strings with atleast two occurrences of atleast two consecutive is the two occurrences not using adjacent. -> (o+1)*11 (o+1)* 0 (o+1)*11 (o+1)* 17. Strings over fa, b, C& in which the fourth symbol from begining in a c -> (a+b+d)(a+b+d)(a+b+c)C | | 11. | TONE OO TO | agreast or |
| 16. Binasy strings with atleast two occurrences of atleast two consecutive is the two occurrences not using adjacent. -> (o+1)*11 (o+1)* 0 (o+1)*11 (o+1)* 17. Strings over fa, b, C& in which the fourth symbol from begining in a c -> (a+b+d)(a+b+d)(a+b+c)C | -> | (0+1)* 00(0+1)* 11 (0+1)* + (0 | 1 1 / 2 1 / 2 | / * |
| 17. Strings over fa, b, c& in which the fourth symbol from begining in a c -> (a+b+d)(a+b+d)(a+b+d)c | | (3.1) (011) 11(011) -1(0. | 11 (041) 0 | 0(0+1) |
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| 17. Strings over fa, b, c& in which the fourth symbol from begining in a c -> (a+b+d)(a+b+d)(a+b+d)c | | (0+1) 11 (0+1) 10 (0+1) * 11 (0. | +1)* | 2700 |
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| (a+b+c)* | -> | (a+b+d)(a+b+c)(a+b+c)c | | * s . |
| | | (a+b+c)* | | 9 |
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| | 18. | Strings over b* (ab* ab* | fa, b} with an even number of | of als |
| | | The state of the s | | · |
| | 19. | Strings over | (a+E) b* (a+E) b* | |
| | <u>→</u> | b*(a+ E) b* | (a+E)b*(a+E)b* | |
| 4 | 20 | Strings over | - Sa, bis of the form arn bern a | shese n4m |
| | | ase the in (ad)* (bb)* | deges. | |
| | •) | (aar (bb)x | | and the control of th |
| | 21. | Strings of t | ne form an bmck whose not m | is odd f |
| | | 1 0 0001 | * b(cc)* (aa) * a (bb) * (cc)* | |
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