

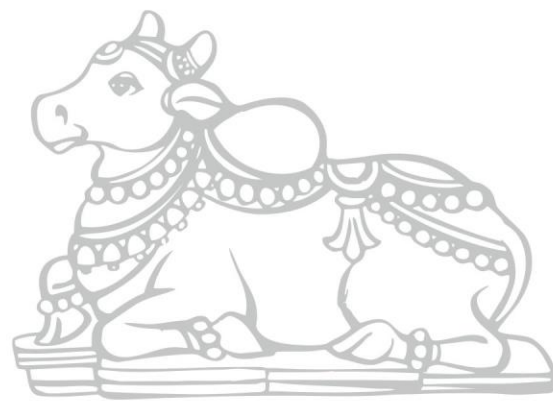
## 11. Alligation and Mixtures (Homework)- Answers

1. Water is mixed with an alcohol-water solution with initial alcohol to water ratio  $a:5$  such that the final solution contains 10a% alcohol. If they were mixed in the ratio 1:4, what is the value of  $a$ ?

(1)1 (2)2 (3)3 (4)4 (5)5

Answers (10. Alligation and Mixtures Home work)

|    |   |    |   |    |   |    |     |
|----|---|----|---|----|---|----|-----|
| 1  | 3 | 21 | 1 | 41 | 5 | 61 | 81  |
| 2  | 1 | 22 | 3 | 42 | 3 | 62 | 82  |
| 3  | 3 | 23 | 1 | 43 | 2 | 63 | 83  |
| 4  | 4 | 24 | 1 | 44 | 3 | 64 | 84  |
| 5  | 2 | 25 | 4 | 45 | 1 | 65 | 85  |
| 6  | 4 | 26 | 1 | 46 | 2 | 66 | 86  |
| 7  | 3 | 27 | 2 | 47 | 2 | 67 | 87  |
| 8  | 2 | 28 | 3 | 48 | 4 | 68 | 88  |
| 9  | 1 | 29 | 3 | 49 | 2 | 69 | 89  |
| 10 | 3 | 30 | 1 | 50 | 3 | 70 | 90  |
| 11 | 1 | 31 | 2 | 51 | 4 | 71 | 91  |
| 12 | 2 | 32 | 1 | 52 | 2 | 72 | 92  |
| 13 | 3 | 33 | 2 | 53 | 5 | 73 | 93  |
| 14 | 5 | 34 | 4 | 54 | 4 | 74 | 94  |
| 15 | 1 | 35 | 2 | 55 | 2 | 75 | 95  |
| 16 | 2 | 36 | 5 | 56 | 4 | 76 | 96  |
| 17 | 2 | 37 | 1 | 57 | 3 | 77 | 97  |
| 18 | 4 | 38 | 5 | 58 | 3 | 78 | 98  |
| 19 | 2 | 39 | 1 | 59 | 2 | 79 | 99  |
| 20 | 3 | 40 | 3 | 60 | 1 | 80 | 100 |



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