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| **S.NO** | **TOPIC** | **SIGN** |
| CLASS XI REVISION | |  |
| 1. | Calculator program |  |
| 2. | Swapping two numbers w/o using third variable |  |
| 3. | Swapping two numbers using third variable |  |
| 4. | Menu driven calculator program |  |
| 5. | To check if a number is palindrome or not |  |
| 6. | To reverse a string |  |
| 7. | To check if a number is even, odd or prime |  |
| 8. | Convert decimal number to binary |  |
| 9. | Display greatest and lowest numbers from an array |  |
| 10A. | Count characters using library functions |  |
| 10B. | Count characters w/o using library functions |  |
| 11A. | Compare, concatenate using library functions |  |
| 11B. | Compare, concatenate w/o using library functions |  |
| 12. | Print initials from multiple word name |  |
| 13. | To reverse individual words of a string |  |
| 14. | Implementation of structure |  |
| 15. | Find LCM, HCF |  |
| 16. | Calculating area using FUNCTION OVERLOADING |  |

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| **S.NO** | **TOPIC** | **SIGN** |
| ARRAY | | |
| 17. | Implementation of 1D array |  |
| A. | Exchanging alternate elements |  |
| B. | Exchanging half side elements |  |
| C. | Reverse the array |  |
| D. | Get two from one |  |
| E. | Get one from two |  |
| F. | Changing the value according to odd, even positions |  |
| G. | Linear search |  |
| H. | Binary search |  |
| 18. | Diagonal patterns in 2D array |  |
| A. | Upper half of left diagonal |  |
| B. | Lower half of left diagonal |  |
| C. | Upper half of right diagonal |  |
| D. | Lower half of right diagonal |  |
| 19. | Exchanging row elements |  |
| 20. | Exchanging column elements |  |
| 21. | Bubble Sort |  |
| A. | Sort using array |  |
| B. | Sort using structure |  |
| 22. | Exchange selection sort |  |
| 23. | Insertion sort |  |
| 24. | Merge sort |  |
| 25. | Insertion in sorted array |  |
| 26. | Deletion in sorted array |  |
| 27. | Sum of rows and columns in 2D array |  |

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| **S.NO** | **TOPIC** | **SIGN** |
| CLASS | | |
| 28. | Implementation of class |  |
| 29. | Implementation of inheritance |  |
| 30. | Create, search display details using class |  |
| 31. | Implementation of class using default constructors |  |
| 32. | Implementation of class using different types of constructors |  |
| TEXT DATA FILE | | |
| 33. | Enter and display contents in text data file |  |
| 34. | Count alphabets, digits, spaces, words and lines |  |
| 35. | Count words starting with ‘THE’ |  |
| 36. | Count words starting with ‘A’ or ‘a’ |  |
| 37. | Count lines starting with ‘A’ |  |
| 38. | Count number of words |  |
| BINARY DATA FILES | | |
| 39. | Enter, edit, search, delete, sort records in binary data file |  |
| STACKS AND QUEUES | | |
| 40. | Stack using array |  |
| 41 | Queue using array |  |
| 42. | Circular queue |  |
| 43. | Stack using linked list |  |
| 44. | Queue using linked list |  |
| SQL | | |
| 45-50 | Single table queries |  |
| 51-52 | Two table queries |  |