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Art's, Science & Commerce Sangamner -422605, Dist-A.nagar**
DEPARTMENT OF BBA[COMPUTER APPLICATION]

Question Bank

Name of Subject - CPP

Q Solve the following question

1. What is Reference Variable ?
2. List any four features of OOPs.
3. What is an Abstract Class ?
4. What is Inline function ?
5. What is the difference between cin & getline() ?
6. What is generic pointer ?
7. What is stream concept in C++ ?
8. What is Dereferencing operator ?
9. What is encapsulation ?
10. What is void pointer ?
11. Define the following terms :
12. 1) Identifier (ii) Constant.
13. What is function prototype ?
14. Define destructor.
15. What is polymorphism ?
16. What is virtual function ?
17. Write uses of get() and put().
18. Define the following :
 - a. tellg()
 - b. tellp()
 - c. class template

- d. function template.
- i. What is data abstraction ?
19. (b) What is return by reference ?
 20. (c) Define :
 21. 1) Dynamic binding (ii) Message Passing.
 22. (d) Explain structure of C++ program.
 23. (e) What is this pointer ?
 24. (f) Explain const arguments.
 25. (g) Define pure virtual function.
 26. (h) Explain break, continue statements.
What is static data member ?
 27. What is setf() function ?
- i. Explain default argument with the help of suitable example and also write in which situation default arguments are useful.
28. (b) What is exception ? Explain, how exception is handled in C++.
 29. (c) Explain any four formatted input/output functions.
 30. (d) Create a class student having the following members :
 1. Rollno
 2. Name
 3. Percentage
 31. Write necessary member function to accept student details
 32. and display details along with class obtained depending on
 33. percentage.
 34. (e) Design C++ class which contains function display(). Write a
 35. program to count number of times display() function is called.
 36. (Use static data member).
 - i. Define polymorphism. Explain its types.
 - ii. What is file in C++ ? Explain two methods of opening a file

with syntax.

37. (c) What is need of call by reference ? Explain with example.
38. (d) Write a C++ program to calculate square and cube of an integer number by using inline function.
39. (e) Write a C++ program to display number of vowels present
40. in a given file.
 - i. Write a note on class templates.
 - ii. Explain the use of new and delete operator with the help
41. of suitable example.
42. (c) Write a program which consist a function to find out the rate
43. of interest with default arguments.
44. (d) Create a C++ class maximum to perform the following functions
45. as :
 - a. int max(int, int) Returns maximum of two integer numbers
46. (ii) int max(int[], int) Returns largest number from an
47. integer array of size n
 - i. Explain pointer to object with example.
 - ii. Explain pure virtual function with example.
 - iii. Define class string using operator overload “= =” to compare
48. two strings.
49. (b) Write a note on memory management operators in C++.
50. (c) What is inheritance ? Explain its three types.
51. (d) Write a C++ program to find maximum and minimum of two
52. integers and two float numbers by using function template.
53. (e) Write a program to append contents of one file to another
54. (a) Write a note on exception handling.
55. (b) What is inline function ? Write difference between macro and
56. inline function.
57. (c) Write a program to overload unary operator ! (NOT).

58. (d) Write a C++ program to find reverse of a number using friend
59. function.
60. (e) Write a program which will implement the concept of virtual
61. base class
- i. Explain array of object with diagram.
 - ii. What is tokens in C++ ? Explain in detail.
 - iii. Explain function overloading with example.
 - iv. Write a C++ program to read contents of a text file and
62. count number of characters, words and lines in a file.
63. (e) Write a C++ program using friend function to calculate sum
64. of digits of a number.
- i. What is friend function ? Which are the features of friend
65. function ?
66. (b) What is inheritance ? Explain it with its types.
67. (c) Explain virtual base class with suitable diagram.
68. (d) Write a template program to sort integer and float array
elements of size five.
69. (e) Design a C++ program to create two base classes personnel
70. (name, address, e-mail-id, DOB) and academic (10th std marks,
71. 12th std marks, class obtained). Derive a class Bio_data from
72. both these classes and prepare a bio data of a student having
73. personal and academic information.
- i. Explain inline function. Write the circumstances in which
74. inline
function will work like a normal functions.
 - i. Explain rules for overloading operators.
 - ii. Explain parametrized constructor with a suitable example.
 - iii. Explain functions for error handing during file operation.
75. Write a program to calculate area and circumference of a circle
using inline function.

76. (e) Trace the output of the following program and explain it.

Assume

77. (b) Explain various errors handling functions used during file

78. operations.

79. (c) Write a program for constructor with default arguments.

80. (d) Write a program to overload ...unary operator.

81. (e) Trace the output of the following program and explain it.

i. Explain compile time polymorphism and runtime polymorphism with example.

82. (b) What is stream ? Explain a stream class hierarchy.

83. (c) Create a class time which contains data members as hours,

84. minutes and seconds. Write a C++ program using operator

85. overloading for the following :