Roll	No
1 101	

## Sample Paper

Laway yatar

Computer Science – XI

- XI 2013

Time: 3 Hrs Max. Marks: 70 General Instructions All questions are compulsory. Marks are indicated against each question. Read question carefully. 1 Q1. What will be the size of following constants? '\b', "\b", Q2. Write the 1's Complement form of the following binary numbers: 1 100010111, 11101 Q3. What do you mean by unary operators? Explain with suitable example. 2 Q4. What do you mean by language processors? Why we need it? 2 Q5. What is the difference between Runtime and Syntax errors? 2 Q6. Define inheritance and polymorphism? 3 Q7. What output will be the following code fragment produce? 2 (a) int val, res, n=1000; cin>>val; res = (n+val) > 1750 ? 400 : 200;cout<<res: i) if the input is 2000 ii) if the input is 500 (b) What will be the output of the following program segment? 3 If input is as: (a) g (b) b (c) e (d) p cin >>ch; switch (ch) { case 'g': cout<<"Good"; case 'b': cout<<"Bad"; break; case 'e': cout << " excellent "; break; default: cout<<" wrong choice"; 2 (c) Determine the output:

Prepared by: B.S. Yadav, PGT (Computer Science) and M.K.Gupta,

JNV Jaswantpura

Page 1 of 4

```
Liver yatar
      for(i=20;i<=100;i+=10)
      j=i/2;
      cout<<j<<"";
Q8. Write an alternative code for the following using switch-case construct:
      char wish;
      if( wish== 'a')
                    cout << "YOU WILL GETT 40 OUT OF 40";
      else if( wish== 'b')
                    cout<< "MY FRIEND WILL GET 40 OUT OF 40"
      else if( wish== 'c')
                    cout << "TEACHER WILL NOT GIVE 40 OUT OF 40";
      else
                    cout<<"NO ONE WILL GET 40 OUT OF 40
Q9. Evaluate X=a+++-a; if a=20 initially?
Q10. What is type conversion? How many types of type conversion is allowed in c ++. Explain with
      example.
Q11. Write the header file for the given function
   (a) abs() (b) isdigit() (c) sqrt()
                                        (d) setw()
Q12. Fill in the blanks:
```

iii) (A6D12)16=( Q13. Write a program in c++ to calculate the commission for the salesmen. The commission is calculated as follows.

i) (100011101)<sub>2</sub>=

ii) (354)8=(

2

3

2

3

Sales	Commission
Made	Rate
30001 onwards	15%
22001 to 30000	10%
12001 to 22000	7%
5001 to 12000	3%
0 to 5000	0%

Prepared by: B.S. Yadav, PGT (Computer Science) and M.K.Gupta, JNV Jaswantpura

```
Q15. Find the error from the following code segment and rewrite the corrected code underlining the
                                                                                                      2
     correction made.
     # include(iostream.h)
     void main ()
     int X,Y;
     cin>>>X;
     for(Y=0,Y<10,Y++)
     if X = =Y
     cout << Y+X:
   else
       cout>>Y; }
Q16. How can you give a single line and multiline comments in C++ explain with suitable examples?
                                                                                                     2
Q17. What is difference between '/' and '%' operators in c++? Explain with a example.
                                                                                                     2
Q18. What is the difference between call by value and call by reference explain with suitable example
                                                                                                     3
Q19. Write a program to find the roots of a quadratic equation.
                                                                                                     4
Q20. Write a C++ program to print the Fibonacci series
Q21. Determine the number of bytes required to store an array A[5][15] of base type integer. Assuming the
     integer data type has size 4 bytes.
Q22. What is an Operating System? Explain its any two functions
                                                                                                     2
Q23. How is a compiler different from interpreter?
Q24. Explain Break and Continue statement in C++ with example.
                                                                                                     2
Q25. What is difference between Actual parameter and Formal parameter? Give an example in C++ to
     illustrate both type of parameters.
                                                                                                     3
Q26. Expand the following:
                                                                                                     2
              CPU (ii) ROM
                                    (iii)MICR
                                                  (iv)OCR
Q27. Write a c++ program to compute the simple interest on a given amount and time. If the time is
       2 years or more calculate it with 3% rate of interest and 5% otherwise.
                                                                                                     4
```