

Guess Paper - 2008
Class- XI
Subject – Computer Science

Max.Marks:70

Time: 3 hrs.

- All questions are compulsory
- Programming Language - C++

Questions:

1. What is the function of main memory? What are its measuring units? 2
2. What do you understand by application software? 1
3. What do you mean by booting up? 1
4. What is an Operating System? What are its functions? 3
5. Explain the basic concepts of OOP? 5
6. Find out errors, if any, in the following C++ statements:
i) `cout<<"a=" a;` ii) `cin>>y;>>j;` iii) `break = x*y;` 3
7. What are operators? Give examples of some unary and binary operators? 2
8. Name the header files in which the following functions are included: 4
i) `clrscr()` ii) `sqrt()` iii) `pow()` iv) `getch()`
9. What is the difference between run-time error and syntax error?
Give one example for each. 4
10. If the file `iostream.h` is not included in a program, what happens? 1
11. Write a C++ program that accepts marks in 5 subjects and prints the average marks. 3
12. Explain fundamental data types and their purpose. 5
13. What is a reference variable? How is it defined in C++? 2
14. What do you mean by dynamic initialization of a variable? Give an example. 2
15. Write a program to read two numbers and print their quotient and remainder. 2
16. What output will be the following code fragment produce?
`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 2
17. Given the following set of identifiers:
`char ch; int intval; long longval; float fl;`
Identify the datatype of the following expressions:
a) `ch - 3;` b) `intval * longval - ch` c) `fl + longval/ch` 3
18. What is the function of increment/decrement operators? How many varieties do they come in? How are these two varieties different from one another? 5

19. Write the corresponding C++ expressions for the following Mathematical expressions: 3
- a) \sqrt{p} b) $2 - ye^{2y} + 4y$ c) $p + q/(r+s)^4$
20. What is the role of comments and indentation in a program? 2
21. Write short note on: 4
- i) Documentation ii) Algorithm
22. Draw a flowchart to find the biggest of three numbers. 2
23. How is a structure different from, 4
- i) an array ii) a class.
24. Point out errors in the following program: 2
- ```
main()
{
 cout<<"Enter variable";
 cin>>var
 sqrs = var * var
 cout<<"The square is"<sqrs;
```
25. Evaluate the following: 3
- i)  $a = a + (++a)$  if  $a = 20$  initially
- ii) `int ch = 20;`  
`cout<<"+ch<<" "<<ch;`
- iii) `float f;`  
`cout<<sizeof(f);`
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