

GULF SAHODAYA EXAMINATION – 2007 (SAUDI CHAPTER)

COMPUTER SCIENCE (SET – A)

Class XI

Max. Marks 70

Time : 3 Hrs.

All questions are compulsory.

Programming language is C++.

1. What is Abacus? (2)
2. Which are the different types of operating systems? (2)
3. What is the function of memory? What are its measuring units? (2)
4. What is the difference between Internal and External DOS commands? (2)
5. State the limits and delimits of computer. (3)
6. Which are the different types of errors? (2)
7. What is debugging? (2)
8. What is commenting and indenting? Give example. (2)
9. How is an identifier different from a reserved word? Give an example. (2)
10. What are the rules to be followed while naming an identifier? (2)
11. What would be the output of the following code:- (2)

```
# include <iostream.h>
void main()
{
  int x = 5, y = 5;
  cout<<x++;
  cout<<" ";
  cout<<"+x";
  cout<<" ";
  cout<<y++<<" "<<"+y;
}
```
12. Rewrite the following code using if-else construct:- (1)

```
res = (n > 1700) ? 400 : 200;
```
13. Explain switch – case construct. Give example. (2)
14. Write a program to reverse a given integer. (3)
15. What will be the output of the following code? (2)

```
int i;
i = -12;
do
{
  cout<<i<<endl;
  i+=1;
}
while (i < 0);
```
16. Write a program that prints the following output on the screen. (3)
A
B B
C C C
D D D D
E E E E E
17. Write a program to sort the array in ascending order. (3)
18. Identify the error in the following program code:- (2)

```
# include <iostream.h>
void main()
{
```

```

int x;
cin<<x;
for (y = 0,y < x, y++)
cout>>x+y;
}

```

19. Suggest the storage class for the following:- (2)
- A heavily used variable.
 - A normal variable.
 - A variable that spans multiple files.
 - A variable that should retain its value after the function call is over.
20. Write a program that reads length of cloth in inches and uses a function to convert it into feet and inches. (4)
21. Differentiate between islower() and tolower(). (1)
22. Identify the header files to which these built – in functions belong. (2)
- setw()
 - getline()
 - pow()
 - strcmp()
23. Write the equivalent switch-case construct for the following code. (3)
- ```

char ch;
cin>>ch;
{
if(ch == 'A')
 cout<<"Grade A";
else if(ch == 'B')
 cout<<"Grade B";
else if(ch == 'C')
 cout<<"Grade C";
else
 cout<<"Grade D";
}

```
24. Write a program to reverse a string. (3)
25. Write a program to find the upper triangular matrix of a given 3x3 matrix. (3)
26. Convert (FACE)<sub>16</sub> to decimal, binary and octal number systems. (2)
27. Express -47 in two's complement form. (2)
28. Expand ASCII and EBCDIC. (1)
29. How is CISC different from RISC. (3)
30. Consider the following array declaration. (2)
- int A[5][12];
  - char Y[10][15];
  - float X[12];
- Find the number of elements in each array?
  - Find the total no. of bytes required to store the elements?
31. Expand the following. (2)
- CVT
  - UPS
  - MCI
  - SMPS
32. What is encapsulation? (1)