

Guess Paper - 2008
Class- XI
Subject – Computer Science

(By Mr.M.Ravi Kiran)

Max.Marks:70

Time:3 Hrs.

- *All questions are compulsory*
- *Use C ++ as Programming Language*
- *All questions are compulsory.*

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|----|--|---|
| 1. | (a) What is an operating system? Explain types of operating systems. | 3 |
| | (b) Name any two characteristics(strengths) and weaknesses of a computer. | 2 |
| | (c) Classify the types of computers. | 3 |
| 2. | (a) What are internal and external commands in Dos. Mention 2 examples for each. | 3 |
| | (b) Explain about wild card characters. | 1 |
| | (c) What is the difference between language and package? | 1 |
| | (d) Name the services provided by an operating system and mention its functions. | 3 |
| 3. | (a) Write about the principles of object oriented programming. | 3 |
| | (b) What is an algorithm? Write an algorithm to display numbers between 1 to 10 | 3 |
| | (c) Write an algorithm and draw flowchart to find the largest and smallest number out of a
Given list of 100 numbers. | 3 |
| | (d) Differentiate between if and switch | 1 |
| | (e) Differentiate between break and continue. | 1 |
| | (f) Differentiate between while and do-while. | 1 |
| | (g) What is difference between / and % operators in c++ ? | 1 |
| 4. | (a) Explain about various printers. | 3 |
| | (b) Explain about various computer registers. | 2 |
| 5. | (a) Write about various I/O Functions. | 2 |
| | (b) What is the use of #include directive. | 1 |
| | (c) Explain about various storage class specifiers. | 2 |
| | (d) Write the stages of program development process. | 2 |
| | (e) Convert (i) $(123)_{10}$ to $()_2$ ii) $(5D)_{16}$ to $()_{10}$ | 2 |
| | (f) How is an array different from,
i) a structure ii) a class. | 2 |
| 6. | (a) Name the header file, to which following built-in functions belong
(i) gets() (ii) strcpy() | 1 |
| | (b) Write a program to find the factorial of the number entered by the user. | 2 |
| | (c) What will be the output of the following program.
#include<iostream.h>
void main()
{ | |

```
int x=3; float y=6;
cout<<"\n\nThe value of y is"<<x+10/y;
```

- } 1
- (d) Write a program to check whether the given number is Armstrong or not. 2
- (e) The telephone office charges telephone bill according to following rules:
 For the first 50 calls – Free of cost,
 For the next 150 calls – 120 Paise per call,
 Beyond 200 calls – 140 Paise per call.
 Customers have to pay monthly rental of 100 Rs/- also.
 .WAP to read the number of calls and print out the telephone bill for that month. 3
- (f) WAP in C++ to reverse a string, and also check whether the given string is palindrome or not. 3
- (g) What will be the output.
 (i)x=pow(3,2) (ii) y=ceil(10.4) (iii)z=ans(-67) (iv)y=strlen(“usa”) 2
- 7.(a) Write a program for swapping of two numbers using call by value and call by reference methods. 3
- (b) What will be the output of the following code fragment produce?

```
int x=10,y=15,z;
z = y++;
cout<<z;
```

 1
- (d) Write the corresponding C++ expressions for the following mathematical expressions:
 a) \sqrt{x} b) $2 - ye^{2y} + 4y$ 1
- (e) Construct function prototype for descriptions given below
 (i) rarb() takes no argument and has no return value
 (ii) test() takes a float argument and returns an integer 1
7. (a) Design your own function to compute length of string(do not use ready made function 2
- (b) Write a program to display prime numbers between 1 to 100. 1
- (c) What output will be the following code fragment produce?

```
int val, res, n=1250;
cin>>val;
res = (n+val) >1750 ? 400 : 200;
cout<<res;
```

 i) if the input is 1800 ii) if the input is 500 1
- (d) 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 1

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ALL THE BEST