

March 2016

Time: 2.00 hrs

Marks : 50

- Q. 1 (A) Select the correct alternative & rewrite : (4)**
- a) BORDER is attribute used in \_\_\_\_\_ tag of HTML.  
i) <PRE> ii) <ADDRESS>  
iii) <TABLE> iv) <CAPTION>
- b) In C++ double type data consumes \_\_\_\_\_ bytes in memory  
i) 2 ii) 4  
iii) 6 iv) 8
- c) \_\_\_\_\_ is an Operating System.  
i) VBSCRIPT ii) UNIX  
iii) C iv) BASIC
- d) Context Switching is a term related to \_\_\_\_\_ Management  
i) Process ii) Memory  
iii) Information iv) Device
- (B) Answer any two of the following : (6)**
- a) Explain why user is not allowing to directly interact with the Hard Disc. Due to the Operation required to read data from disk.  
b) State any 6 characteristics of Constructor  
c) Define i) File ii) Record iii) Key-field
- Q. 2 (A) Answer any two of the following: (6)**
- a) Explain Virus Detection, Removal and Prevention.  
b) What is Polymorphism ? Explain Compile Time and Run Time Polymorphism.  
c) State Algorithm for inserting an element in an Army.
- (B) Solve any one of the following : (4)**
- a) What is Operator Function ? Explain difference between Operator Function as Member Function and as a Friend Function.  
b) Explain Local Data and Global Data or variable in C++ using examples.
- Q. 3 (A) Solve anyof two of the following : (6)**
- a) State characteristics of Friend Function  
b) Explain local Data and Global Data or variable in C++ using example.  
c) State features of WINDOWS – NT
- (B) Solve any one of the following : (4)**
- a) Using examples explain how files are opened and closed in C++. State any four file models.  
b) Explain the process of Multi programming in Process Management with help of an example.
- Q. 4 (A) Solve any of two of the following : (6)**
- a) State three characteristics of static data.  
b) Explain use of Memory Management Operators in C++  
c) What a record ?how it is represented in Memory ?

**(B) Solve any one of the following :** **(4)**

- a) What is Virtual Memory ? Explain any three terms related to virtual memory.
- b) Explain following terms with respect to memory management.(4)
  - i) Internal Priority
  - ii) External Priority
  - iii) Purchase priority
  - iv) Time Slice

**Q. 5 (A) Solve any two of the following :** **(10)**

- a) Write program in C++ to print first 20 terms of Fibonacci Series (Series is - 0, 1,1,2, 3,5,8.....)
- b) Implement a class temperature, include a constructor in it which accepts value of temperature from use in degree Celsius, include two functions in it, one of which calculates its equivalent temperature in degree Fahrenheit and other function prints the answer :

$$\left[ \text{Formula: } \frac{C}{5} = \frac{F-32}{9} \right]$$

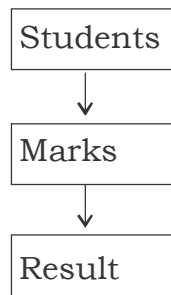
- c) Write an HTML code for following record :

Year	Student		
	Boys	Girls	Total
2004	25	30	55
2005	80	25	105

**OR**

**Answer any two of the following:**

- a) Implement a class average. Include a constructor in it which will accept value of three variable s from use include two more functions in it, one functions calculates average and other prints it.
- b)



Implement the above class hierarchy of inhintance. Class student accepts roll number of student, class marks accepts marks of three subjects and class result calculates the total and prints all details.

(Create object of class result)

- c) Write an HTML code of following output :  
COLLEGE                      ←H1 and center  
Principal  
\* Vice Principal  
\* Professors  
\* Non-teaching Staff

For more details [click here](#)

(The words click there act or hyperlink to next page whose address is "C:\ My Documents \A1.HTML)