

Y M C A University of Science and Technology, Faridabad  
MSc.(Physics) II semester Examination (under CBS)  
FUNDAMENTALS OF COMPUTERS/C&C++ (PH-508)

Time: 3 hrs

Max. Marks: 60

Note: Attempt Five questions and question no. 1[Q1.(a-j)] is compulsory.

- Q1. a Explain constants in C programming. (2)  
b Differentiate between C and C++ programming languages. (2)  
c Define data types in FORTRAN. (2)  
d What would be the value after execution of the following expression? Assume the initial value of i=5 (i)  $i+=(i++)+(++i)$  (ii)  $i-=(--i)-(i--)$  (2)  
e Give syntax for conditional operators in C. What are their main advantages? (2)  
f Explain following functions (i) `putch()` (ii) `getch()` (2)  
g Define return statement with an example. (2)  
h What are logic operators in C programming? (2)  
i Write down the structure of C++ programming. (2)  
j Define video adaptors and their uses in graphics. (2)
- Q2 a Write program in C, which reads a list of 4 numbers and print the list in order. (6)  
b Define nested loop with an example. (4)
- Q3 a How to find out largest of three numbers in C programming? (6)  
b What are C++ programming features? (4)
- Q4 a What are pointers in C? Write a program to define pointers. (6)  
b How to define storage classes in C programming with examples? (4)
- Q5 a Why file handling are required in C programming? Explain with an example. (6)  
b Write a program in C to draw circle on a screen. (4)
- Q6 a Define memory management in C. Discuss one in detail with the example. (6)  
b Write down FORTRAN program to swap two characters. (4)
- Q7 a Define Union in C. Write a program in C to explain the union. (6)  
b Define for loop with an example. (4)