

CHAPTER-8

POINTERS

VERY SHORT/SHORT ANSWER QUESTIONS

1.	Describe C++ memory map when a program is executing. Highlight the role and use of Heap area.
Ans.	When a program is executed, C++ creates four logically distinct regions of memory: (i) area to hold the compiled program code (ii) area to hold global variable (iii) the stack area to hold the return addresses of function calls, arguments passes to the functions, local variables for functions, and the current state of the CPU. (iv) the heap area from which the memory is dynamically allocated to the program.
2.	What is pointer arithmetic? How is it performed? Support your answer with example.
Ans.	Only two arithmetic operations, addition and subtraction, may be performed on pointers. In pointer arithmetic, all pointers increase and decrease by the length of the data type they point to. For example, <pre>int *p; p++;</pre> If address of p is 1000, then p++ statement will increase p to 1002, not 1001.
3.	Given the following definitions: <pre>int ival=2048; int *iptr; double *dptr;</pre> which of the following assignment, if any, are illegal? Explain why. (a) ival=*iptr (b) *iptr=ival; (c) *iptr=ival (d) dptr=iptr; (e) ival=iptr; (f) iptr=ival; (g) iptr=ival; (h) dptr=*iptr;
Ans.	(a) legal assignment. (b) legal assignment. (c) illegal assignment, cannot assign a address of normal variable to pointer variable. (d) illegal assignment, cannot assign a integer pointer to a double pointer. (e) illegal assignment, cannot assign pointer variable to a normal variable. (f) illegal assignment, cannot assign normal variable to a pointer variable. (g) legal assignment. (h) illegal assignment, cannot assign a integer pointer to a double pointer.
4.	Given the following set of variable definitions: <pre>int *ip1, ip2; char ch, *cp;</pre> which of the following assignment are type violations? Explain why. (a) ip1="Smile Always"; (b) cp=0; (c) ip1=0; (d) cp=&'a'; (e) ip1=ip2; (f) cp='\0'; (g) ip1='\0'; (h) cp=&ch; (i) *ip=ip2;
Ans.	(a) Type violation, cannot assign string to integer pointer. (b) Correct (c) Correct (d) Type violation, cannot assign string with '&' operator. (e) Type violation, cannot assign normal variable to a pointer variable. (f) Correct (g) Correct (h) Correct (i) Type violation, variable ""ip' is undefined.
5.	What is the problem with the following code fragment? How might you fix it? <pre>char buf[]="Hi there"; int main()</pre>

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$\Delta u = \Delta q - \Delta w$ since $\Delta u = 0$ $\Delta q = \Delta w$ also p, v nrt as t is constant p, v