

**UNIT-IV**

S.No	Questions	BT	CO	PO
<b>Part-A(Short Answer Questions)</b>				
1	Define activation record.	L1	CO4	PO1
2	What is stack allocation?	L1	CO4	PO1
3	Define heap management.	L2	CO4	PO1,PO2
4	What is garbage collection?	L1	CO4	PO1,PO2
5	Define trace-based collection.	L2	CO4	PO2
6	What is a basic block?	L1	CO4	PO1
7	Define flow graph.	L2	CO4	PO2
8	What is peephole optimization?	L2	CO4	PO2,PO3
9	Define register allocation.	L2	CO4	PO2, PO3
10	What is target code?	L1	CO4	PO1
<b>Part-B(Long Answer Questions)</b>				
11	a) Analyze stack allocation and access to nonlocal data.	L4	CO4	PO2, PO3
	b) Discuss heap management and garbage collection techniques.	L4	CO4	PO2, PO3,PO4
12	a) Analyze issues in the design of a code generator.	L4	CO4	PO2, PO3
	b) Describe addresses in target code with examples.	L3	CO4	PO1, PO3
13	a) Compare basic blocks and flow graph construction.	L4	CO4	PO2, PO3,PO4
	b) Discuss optimization techniques for basic blocks.	L5	CO4	PO2, PO3,PO4
14	a) Distinguish peephole optimization with suitable examples.	L4	CO4	PO2, PO3
	b) Discuss register allocation and assignment methods.	L5	CO4	PO2, PO3

15	a)	Discuss stack vs heap allocation techniques.	L4	CO4	PO2, PO3,PO4
	b)	Compare local and global code optimization methods.	L4	CO4	PO2, PO3,PO4