1. Back Patching:

- info is of the labels
-) it indicates the address of the dabel in goto state. While peroducing TACS for gn exp.
- > 2 passes are used becoz assigning the Position of these labels are challenging
- in 1st pass then populate in 2nd hound.
- the parcess of filling up gaps in incomplete towns formation 2 info.

need for BP:

- > Boolean eap
- -> flow of Control Statement
- 3 dabele 2 goto.
 - -> flow of Palog in L & a.
 - -> Alleast one Statement with L
 - in scope of this g statement.

2. taiples of emp a*-(b+c)

taiple, and, sod. 1: fi:= b+c temp variables to 2: f2 := - f1 Store intermediate squit 3: t3: = a + 12 qu brind of Gogn the final sesult of en

3. x = *y: a = 2x:

1: f1:= * A

2: x: = +1000 0000 000 000 17

3: Q: 2 x A. idea bohind generating 3-A-c during compilation.

> to cheate I.C appresentation of s.c. easily teranslated into Machine code

-> low-level 919p. uses small no et instructions Benefits

Simplification: > baseak into Small pieces.

> Simple to Perform

Postability -> plat form indopondont stepherentation -> same code in diff platform.

Debugging > 8+9metholog 9186.

5. quadruples propersion over triples in an optimizing compiles?

Duchen the Statement are often moved around. In the computation of a value 2 its use In the Louise motation.

Moving Statement that Defines a femposary value stequises to Change all pointers to that Statement Do in Aggl 22.

This makes difficult use in Optimizing Compiler.

6- notations to suppresent an intermediate dong.

TAC: > low-level suppresentation of code.

Quadouples: > 4 field than TAC

> Source 1, 2, Destination.

Syntax trees & hierarchical suppresentation

-> Helation bet pup 2 Statements

Abstract Symlax tree: -> Similar to Syntox tree

I more abstract, omitting nodes that not affect the meaning of code

Bytecodo:

-> vistual mach. (low-lovel supp of eodo)

Distectly by Processos.

7. how to solve the issues in the Design of Lode gonerator.

& ITP to code generatel.

-> intermediate code generated from front and

Lineas sep. -> postfix

TAC > Q, T, T

graphical sup. -> syntartaes -> DAG.

* taged paragram

-> olp of code generator

Absolute ML, Relocatable ML, Assembly dang.

de Meneory Management.

Mapping name to address of Data Obj

instauction selection.

-) Best instanced. imparoves officioncy

or Regista allocation issues

> computation fastes.
> Register Allocation 2 assignment.

Rechoice of suglication brider.

Sonder in which the instructions

are executed.

8. Jour painciple use of stepsisters in (. Grenesation Register > small, high-speed memory locations temporary store varia 2 perform logic 2 Arish. enp.lop.

Variable Storge:

-> 3toro Valuel.

Parameta passing.

> pass function and bet func.

Return values. Sietar-Val. fron func.

temporay Storage: