Q.1) Translate following Statement into three of	iddxess
code if ney and asb.	h 
-> 0) t1=x4	
1) $\xi_2 = abb$	
2) to= ti\$\$ to	1/2
3) if 12 goto 4	
(y) (v)	
O to = xxy compares the values of x egy	and assign
9 th 2 May Company the many of Marine	1
the result to a new temporary vorticity	b 00-1
3 to = ash compares the values of a and	b ung
assigns the results to new temporaly	Amarapile
6 pt	
3) to = to \$\$to checks if both to and to	
frue (1e. have a nature of 1) and assign	the
result to a New temp variable to.	7.7
both are true to will be assigned to	
otherwise 0.	
(9) It checks if to is take (ie has	a value
of 1). It is true, the congret jump	5. to
the inst. labeled 5. otherwise , the ex	ogran
continues to the next inst. often	
block.	
	TIÉ.

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.0.2	Officientials petu pob obju	mization and local
		avision diamen
	loop openion	Miles more transport -
0	Optimizer land	local opinization
	code loop in the	optimize cook within a
	12 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1	single function.
(3)	Reduce the manufacture of	(1) (2) (2) (2) (3) (4)
	instances accorded in	
	100bz	
		in a function.
(3)	maximises the one of	Eliminates acduadent
	processor registers in loops	code with a function
0	Improves performance of	Improve performance of
The second secon	loop - intensity code	J. C. L. C. J. C. J.
		memory accesses.
3	Techniques used includes	Techniques used
A 20.85	goof untilling loop	induck constant folding
	Prosing to do in moving	dead code elimination
		- romander Horaries
		and common
		Subexpression.
		elimination
4-4-5	A BAINSLOW DE NE CONCE	
	AS TOURAS MADE TWO IN	
	1 fotosome 7.17	
		15 4 18 18 18 18 18 18 18 18 18 18 18 18 18

0.3	explain peoplal optimisation with their
,	characteristics.
~D*	perphat optimization:
1.9	prophal optimization in a local optimization
i) randosa	Protopper of resignal or boar protose
	lock performance. It focuses an eliminating
	redundent or inefficient code sequence in
h se	a Small and fixed size window of
3.0	instituction of prepholes.
	and the second of the second o
*	characteristics of peophole optimization:
0	localized optimization:
BART SALLS	peophole optimization is a lactized optimization
*	techniques that focusies an optimizing a
1. 1.	soncial and fixed szed landow of instruction
5,77/1	This window typically bet those and seven
X.	instauction large
<u> </u>	It exactive places: " many and a mineral (a)
pather	preprior optimization is an iterative process
mittan	that Examines each Instituction in the
70	window and looks for optimization to
	eliminate redundent. Audinities
	- 3013-19 - 1 C-12
(3)	machine Independent:
	prephase optimization is a machine - independent
	aprimization technique which means that it can
	be applied to cook generated for any target
	madrine ordintecture.

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4.4	what are icus
-06	What are issues in generating target code?
17	COLONIE CHOIC : - P
	William Collection
	are the feature and many not support
11 x 2 2	are the feature and consisted of the source
	and some
	functionality in the generoded code:
(E)	Instruction set limitations: - a constant
	The domest
	The torget machine instruction set may have
307.02	moreonore mar march it would the const
	efficient code. For ex. some madring many not
1. 401 /.	Many not
	supports certain. Hyper of memory agens or
	have limited supported for floating point
	arithmetics is over the metics
	V.
6	Marie and the same of the same
(3)	Register auocation:
	Register allocation is a collect blue in
e	generating efficient code. If the compiler does
	The state of the s
	not colorate register optimally it can
3	result in inefficient code that requires
	excessive wewarm acceptions in 1921 200
	, e
	( d' 1 deas no ) los/ = ch (E)
@ p	ebugging: -s
a de la companya de l	bebugging generated code can be and
0/1	rollenging expecially if the generated with
1	als not match the source code
	rachy of a land on I had a shill
	- that a man to be a second

	And the second of the second o	
<u>a</u>	optimization tradeoffs 1-	
	The compiler must make trade affs been	
3 8	generating efficient code and generating who	
	quality. This can resurt in subsptimal lack	
	cio some cases.	
<b>©</b>	Code Size: - A at many man to the many man ( )	1
	The size of generated code as an imp	1
	consideration, especially for embedded sycrem	
4,10	or mobile device with limited memory	25
*/7)	If the generated lade in two large it may	
351.0	Not fil in the quailable memory or	
	require excessive memory access, teading to	
	performance degradation	41
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Q-5)	Construct the given expression into DAG.	
	a+ q * (b-c) + (b-c) * d	
	Steps for courts using a DAG: - D	1
0	di = 1eaf ( )d, entry - q.)	
	d2 = leaf (id, endry - a) = d1	
	d3 = leaf (1d, entry - b)	
<u> </u>	dy = leaf (id, entry - c)	
	d5 = node ( - , ds, dy)	
<u></u>	1 d6 = node ( 6 * ) de d5)	
·	da = node ( + ) di do)	13
<u></u>	d8 = 18af (id), entity-b) = d3	
0	dg = 180f (id, entry = c) dy	