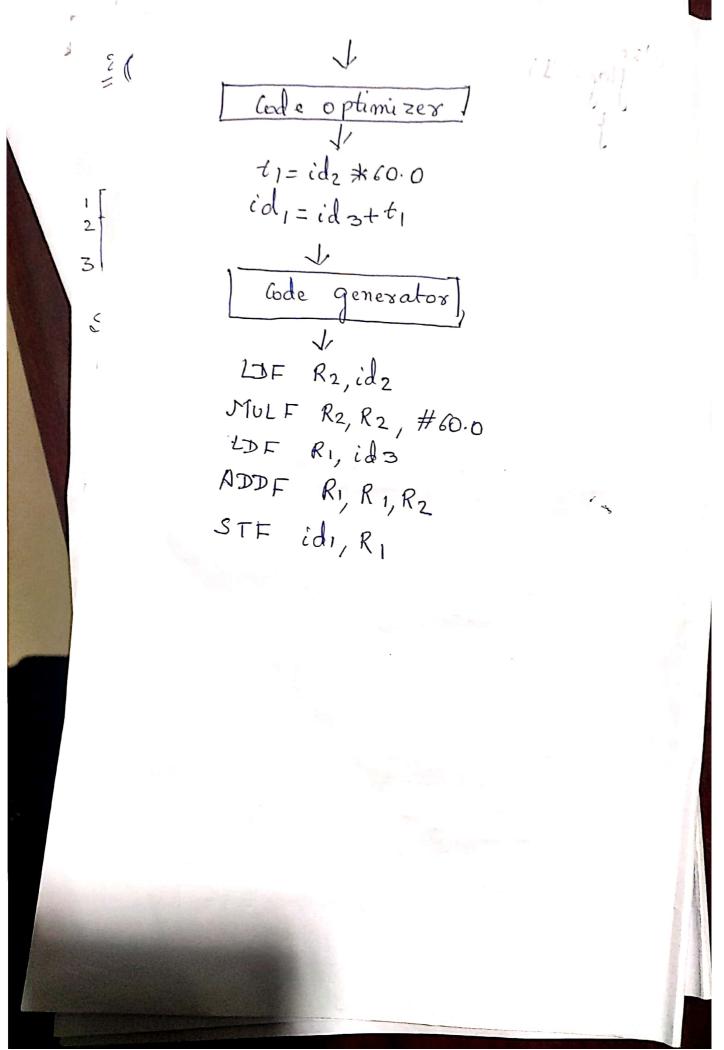
White the common of the common property of th	
Spring 2020 CD (CS 3002)	FM: 20
1a) Difference at least 2 b) Definition Significance c) Lexemes	-1 Mark -0.5 Mark -0.5 Mark -1 mark for
1) Primtt  ii) (  iii) "are+bre= /d /m"  iv) /	finding all lexemes and corresponding tokens
V) arr VI) >= VII) 123 VIII) )	
d) (a),# lett associative \$ Right associative \$ Highest precedence (a),# Same precedence	-Imark
e) 1 mark for attempt	

2) hiven string: POS= val\*60 + vem'; Lexical Analyzer <id,1>(=><id,2> <\*> <60>(+><id,3) Syntax Analyzer <id,1> <id, 3> \*<id,2> Semantic Analyzer <id, 1> <id, 3> int to float <id,2> Intermediale Code generation E1 = int offlat (60) t2= id2 \* +1 (3= id3+62 id, = +3



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$$\begin{array}{c} 3a) \\ \downarrow A \mid B \mid \dots \mid Z \mid a \mid b \mid \dots \mid Z \\ \downarrow d \rightarrow 0 \mid 1 \mid 2 \mid \dots \mid 2 \mid 2 \mid \dots \mid 2 \\ \downarrow d \rightarrow 0 \mid 1 \mid 2 \mid \dots \mid 2 \\ \downarrow d \rightarrow 0 \mid 1 \mid 2 \mid \dots \mid 2 \mid 2 \mid \dots \mid 2 \\ \downarrow d \rightarrow 0 \mid 1 \mid 2 \mid \dots \mid 2 \mid \dots \mid 2 \\ \downarrow d \rightarrow 0 \mid 1 \mid 2 \mid \dots \mid 2 \mid \dots \mid 2 \\ \downarrow d \rightarrow 0 \mid 1 \mid 2 \mid \dots \mid 2$$

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FIRST FOLLOWS FOLLOW	
$T \to \in [T''  \{ \in, E \}  \{ +, \$, \cdot, \cdot \} \}$ $T'' \to J  [X]  \{ 1, id \}  [+, \$, \cdot, \cdot ] \}$ $X \to E  X'  \{ id \}  \{ 1, \$, \$, \cdot \} \}$	
X > EX {id}  X > E (Comma and epsilon)	
e)   id   +   [=0] ste 8015	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$T' \qquad T' \rightarrow \in \qquad T' \rightarrow \vdash T' \qquad T' \rightarrow \in \qquad T' \rightarrow \subset \qquad T' \rightarrow \in \qquad T' \rightarrow \subset \qquad T'$	
X (("bear)) / \$ (1==(6+1)10) 18 X > E	

5.) Given Anrelz 5 Marks B>YA C>Bx AyB The productions can be rewritten as: A>xC/z B > yA C> yAx \ 2(yB \ zyB Char str[so]; int i=0, flag=0; Yaid main () prints/"Enter a string to be passed"); gels (str); if ((strlen(str)==i) && (flag==0))
primt ("successfully parsed"); else print[(" String Cannot he parsed"); void A()  $\begin{cases} 3 & \text{shr}(i+t) = = (x') \\ (()) & \text{shr}(i) \end{cases}$ 

C