CSE 216 Homework #2 Wooyang Jung 114744214 1. \d {3} - \d {2}-\d {4} 6.6:5- ash E d) A social security number in It set of all strings that begin with a the format xxx-xxxxx. and end with b. 2. [a-z]\d* d) Any ward containing only lowercase. letters followed by optional digits. ab t & ash -) abah 3. \d {3}-\d {3}-\d {3}-\d {4}} \d {10} asi E-) a4) a) A SSN in the format its - xxx - xxxx L(S) = { E, ab auch arobah, a or a lo-digit phone number. Bui, does not include strings such as [n \in 2]

Each, all, auth, alleb, alleb, etc3.

B. Equal number of a s and bis: 4 [a-z]+?@[a-zA-z]+?[a-zA-z]{233 is for times as possible as possible of L(S)= { E, ab, aabb, ..., and nez } + followed by 2 or 3 f (one or more [a-t]) (one or more if can be argued that & has ex: Wooyoung-jung @ Stanybrook.ed. number of es and bs L(s): EE, ab, andb,..., and 12.n EZ maj b) An emit address. 5. grap and to search all and files if an be argued that zoo is an W/ regative integers, Enlnez3 even number. Step 1. construct rejex to search may into. D. He set of all strings that centain [-][0-9][0-9]*. h a's followd by m'b's s.f. namber Step 1. research grap commend L(5)= { 6, ab, abab ... and n=n>=c almbab, ... grp "str" * Ext Dis true reger extersion L(5)= { E, ab, andb anable, anbilozo - =) grep "[][09][09] " * .md

In this grammer, there are 7. 6 Hat generates all strings on Ea, 63 Hot start & end of the same symbol two possible combinations of leaf hodis that a passe tre con have. L(S) = EE, ala, bl, aba, bal, alla, For the string id tid xid, Siii a Aa 1 6 Ab 1 a 1 b both EtE and EXE can come first, A ... : aA | bA | E which is then completed with either on 8 S == a Sbb | E as isle ab ExE -id *id or EtE -> id tid lo. Si:= aAb c/d aga bock alla lills String (on be pared CT/F) ashl & acb adb adab anh ab ash & - agaubblobbbb n.a 2n.6 L(5) = { E, abb, andbbb, and blibble, ana blobbbbbb , nta 21/45 | 9. E: = E + E | E * E | id Parse fee 1 park tru 2 E+E