[Surpalin Nag / CSE-AIM / 22/57] =) [A] /CA3] set of statements, "I will be wet it it pains and I go out of the house. It is paining now I go out of the house I will not be wet. E) define Propos. Lional wars. Ro It is paring O: I go out of the house. W: I will be wet, ie) statements into logical expressions: "I will be well if it pains and I go out of the house" G (RNO)→W " If is paining now" - R " I go out of the house" -> 0 " I will not be well - - W iii) Touth Table: (PNO) -> W R RNO NW W T T T F F 7 F T T FT T F T F F F F T T F T T T F F F T F F T 7 F F 7 F F F F F F T

now in the second pow,

R=T, O=T, W=F,

in this pow (RNO)-IW evaluates False,

because if both R&O are Ipue, but wis

because if both R&O are Ipue, but wis

talse, the violates logical implication,

talse, the violates pow is inconsistent

Therefore this pow is inconsistent

-30, The set of statements are inconsistent because in second pow, logical implication (RNO)-JW fails but NW is four.

& E = Set of all student , IEI=600 A = set of male student, IAI = 300 B = set of bowlers " , /B/ = 225 C = set of batsmen , 101 = 160. is number of male students who are bowless: - | A 1B/ i'd number of male students who alse both balsmen & bowleus: -> /A NB.NE/ iii) number of male student who are batsmen 4 / Anel in number of students, as who are female, not bowlers, not balsmen: 4) (E-A) N~BA~€ b) Lemale, bowlets, not balsmens- [(E-A)UBANE] _

