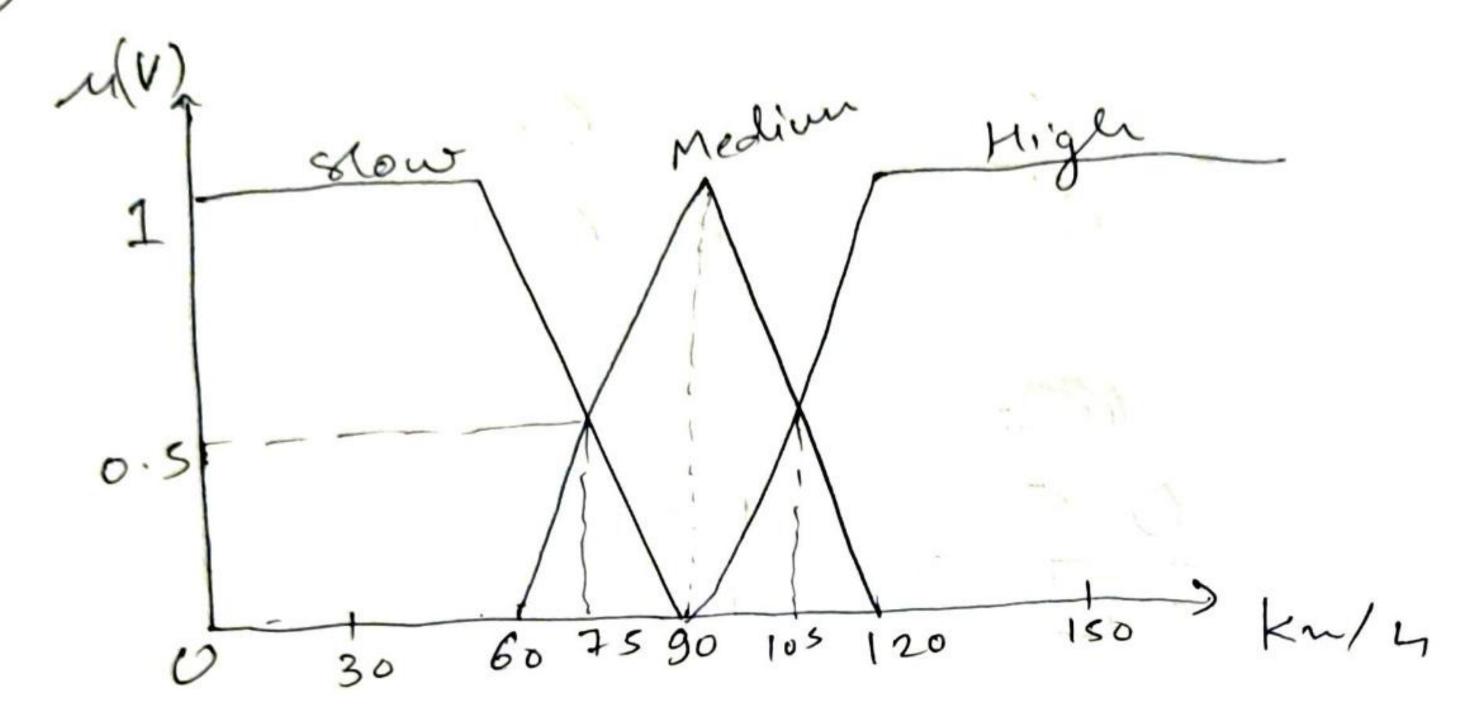
Aus 2)

, (ii) V=70Km/h



$$\frac{0.5}{C} = \frac{105 - 90}{100 - 90}$$

$$\frac{0.5}{C} = \frac{15}{10}$$

$$C = 5/15 = 0.333$$

(ii)
$$V = \frac{70 \text{ km/L}}{0.5}$$

$$\frac{0.5}{c'} = \frac{75-60}{70-60}$$

$$\frac{0.5}{c'} = \frac{15}{10}$$

$$c' = \frac{5}{10}$$

$$u(v) \text{ at } \frac{70 \text{ km/L}}{10} = 0.33$$

1(b)(i) Support: The support of a fuzzy
set A is the set of all boints
n in X such that

Ma (n) >0

A = 0.11 - 1 + 0.5 | 2 + 0.4 | 0 + 0.3 | 1Gut is a fuzzy set Sub(A) = 0.5 | 2 + 0.3 | 1

lii) Core: The Core of a fuzzy set A is the set of all the points n is X such that MA(m)=1.

Core(m) = { n | MA (n)=13

(iii) Normality! A fuzzy set A is normal if its core is non-empty.

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(iv) Convexity: for any M, on 2 belongs to X > M, H, EX and any & E[0,2], them MA (2M, +(1-2)M,) > min & MA (M,), MA (M)), A is a convex if all its of level sets are convex.

(c) The Tap(a,b) \leq Tap(a,b) \leq Tap(a,b) < Tww(a,b)

a \leq Twin

a \leq min(a,b)

1. 1 = min(1,1), a,b = 1(p) $o - o = min(o,o) \leq a,b = o(P)$ $a \times b \leq a$ $a \times b \leq b$ $a \times b \leq b$ $a \times b \leq b$ $a \times b \leq b$

axb Zrin (a,b)

The
$$\leq Tap$$
 $0 \vee (a+b-1) \leq ab$
 $0 \leq ab \Rightarrow 0 = 0.0 \quad ab = 0$
 $1 = 1.1 \quad ab = 1$
 $0 \vee (a+b-1) \leq ab$
 $-1 \vee (a+b-1) \leq ab$
 $-1 \vee (a+b-1) \leq ab$
 $-1 \vee (a+b-1) \leq ab$
 $a,b = 0(p)$
 $a,b = 1(p)$
 $a,b \leq 1(p)$
 $a,b \leq 1$
 $a,b \leq 1$
 $a+b \geq a \cdot b$

but,

 $a+b \geq a \cdot b$

but,

 $a+b-1 \leq ab(p)$
 $a+b \leq 1$

and $a+b \leq 1$

atbook on
$$(a+b) > q.b$$
 (c)
abso atb-1
Tap \leq Tbp
OV($a+b-1$) if $b=1$
 $=$ OV $a=0$ (p)
OV(f b $=$ t) if $a=1$)
 $=$ b (p)
if $a,b \geq 1$
and $a+b > 1$.
No or bon'ther valy $a,b \geq 1$
and $a+b > 1$.
Or regative value $a = 0$ (p)
 $a = 0$ (p)

Scanned by TapScanner

 $Tdp(a,b) \leq Tbp(a,b) \leq Tapla,b) \leq Tmin(a,b)$

here boved