		Extramarks Date / / Page No
*		paracon a service of the paraconstant
	7	Carbusetion: - The process of sorreture preparation
		In an SI engine is called Caeburetton. The
		Calburetion: — The process of the called Calburetion. The lon an SI engine is called Calburetion. The device preparing the air-fuel winture outside the Cylinder is called Castownetos.
	C	Cyfrondes 18 Called Castoursetos.
		It basically atomizes the fuel and motor with as In
		various propositions for different load Conditions.
	4	Starting
	4	
		Loads Idling
-		Cruising Accelerater
-		H-12 TA TECETORAL TO
-	+	Functions of Casburetoss L-
-		
_		a) Atomize, Vaporize and mix the fuel homogeneously
Ī		with ais
		There made
		b) Correct amount of air-fuel minuture Supply for all
		load conditions and speed of the engine. So, that
		b) Correct amount of air-fuel unature Supply for all load conditions and speed of the engine. So, that engine runs smoothly
		11 11 12 1 13 1 1 1 1 1 1 1 1 1 1 1 1 1

=

	Extramarks Dets// Page No
203	Verious factors affecting Casburetton
sakr.	Time available for minuture preparation
23/5	is Temperature of Incorning als
	2v) lugine speed
ei .	(asburetor design
58	- Treadth and Immedia and an Immedia
	High temp air causes high sate of Vaponization. &
30	helps in Caspureton. However, there is a reduction
Nº 1	to power outfut because of decrease to mass flow rate
	J. Caragadan
	for an engine of with open - 3000, the time available
5393	for minture preparation is 0.02 sec.
Com/	Cheal protect 1990 a diff approximate to the
To 1	women's a larger of contrains for some of
16	Various Loads 1
sult	r Loundry In Kanadama Askarda at 14
	Idling/Starting -> Engine owns without load. Produces
_	power only to overcome friction between the
	parts. During Idling to the throute value to nearly
	closed. Hence amount of freeh charge entering the
	Combaution chambres (Cylindes) is most less with the
	exhaust gases amout bying In the Cleasenso Volume
	postion remains the same and hence mining of
	freeh Charge with enhaust gasel is more course
	1 Postimbo otrobuto di Intera di Caraca di Car
	State

Extramarks as compared to full througe opening. Hence more fresh Chaege and I'm dedee to Compensation this sich minture Supply is required in order to Sustain the Combustion. the exhaust gas dilution is provides the engine less and minture. Engine ours regulares sectod minture. Overtaking a vehicle (Short period) wp q De Clembring requised range roich conintule a) to provide best pouses To prevent suesheating of exhaut value and area mear it. → Power range → Cruising range = ← Idling range → D Multicylinder A.F. ratio (kg of arr kg of fuel) Single cylinder Best power Best economy 100 50 Throttle opening (%)

		Extramarks Dete// Prope No
ito	iant	Starting a Cold engine 1 - (why sich minimum to needed)
leç	- 87	When engine to Cold, a Very Small amount of fuel Vaponizes. on Also the fuel to Cold with high Viscosify Causing lower flow rate. The engine & His pasts are also cold & con and causes less Vaponization. The
ις ,	Ş=H=	Cylinder walls att and values also absorbs more heat because of these reasons a orch minture is required.
0	,551	a) A float chambee with a float to skose fuel and
hed) Duesip of hue and		Inlet Valve Throttle
	1	Fuel discharge nozzle Fuel metering jet lip. h
	Įr.	Choke

pastheulas Extramarks b) A cylinder body cylinderical body with a ventuei for atomization of puspose. c) A fuel mosse to atomize and produce a storay A through value to supply verying , quantity of minture at different load conditions. e) A choice value to Combat the air Supply I'm order to provide a sich of a lean winture Simple Carburetox Operation or Working of · Carburretor depression. Smoople Casburretor 2-Drawback of required amount of Supply of air-fuel south only at one throatle position to minture 19 etther leaner or viches depending whether the throatte is opened less of How throatle opening affects the regulation of fuel flow through the mozzle

Extramarks Calculation of Air-fuel ratio 2 -A/p = mg/mg = ? let the the of the fuel mozzle be at a horgest z' from fuel level in the float chamber Applying SFEE D/W A-A (Point-1) and B-B (Point 2) Considering unit mass of air flow. Q-W2 h2-h1+ = (c2-c2) For Kenkopre flow Q 20 & no work wask W 20 Also $C_2 \simeq \sqrt{2(h_1 - h_2)} \simeq \sqrt{2C_P(T_1 - T_2)}$ After mare flow to Constant mg 2 P, A1 Cy 2 P2 A2 C2

A1Cy A2 C2

A1Cy A2 C2

V2/20, 2 (P/P2) /K

OR V2 2 RT2 (P1)/Y

P1 (P2)/Y seition. Francily

(ma) = RT, (P1) Y

Theorem P1 (P2) Y

Theorem P1 (P2) Y

Theorem P2 (P2) Y

Theorem P2 (P2) Y

Theorem P2 (P2) Y

Theorem P2 (P2) Y

Theorem P3 (P2) Y

The





