	Date
	2.(1+1)
7 3	HORT-232 40 mark
	Prode Techn of Vegetables
	and Flowers.
.1	perine vegetable, write in detail. Importance and
que- 1]	Scope of vegetable cultivation in India:
	· Vegetables- Any part of crop consumed as fresh or
	after cooking is called as Vegetable.
	after (ooking is called & octavi
	·Importances-
	(1) Nutrition %-
	· veq are rich & comparatively cheaper source of
	· Veg-are good source of CHO (Potato, sweet)
	Proteins (Pea, bean), Vit A (carrot & tomato), Vit B. (Pea &
ė.	garlic), vit c. (green chilli), minerals (leafy veg.).
	(2) Importance as Food:
	·It is essential to sustain increased prodo
	besides nutritional Standard of People.
	· Yield of veg. crop is 4 to 10 times more than
	cereals. Thus, veg. Play a vital role in food Production
	as they are cheapest source of natural food.
	the states and source or batural food.
	(0) In Oakton
	(3) Importance to a grower:
	reamer can grow veg. throughout the
	year for regular income.
	rainfed areas its short duration crop grown in
	salling alea alea it inco
	to cattle. Soil & Provide Fodder

	(4) Employment &
h	· Veg. crops involve different cultural
10	veg crops
15	operations from sowing to marketing.  .It provide more & regular income
	it toodas areas.
_	and employment in rural areas.
-	(5) Industrial Importances
	· Growth of veg. Industry depends on
3.1	enterprizes like Storage, processing, marketing finaintainan
-	· pue to Perishable nature of veg. they
	Dracaccina etc.
	needs storage, canning, processing en
	(6) Importance of veg. In Farmer's economy:-
	· veg- are Imp source of farm income.
	· Pex acre yield of veg. is very high.
	· more veg. can be raised in one year.
	(7) Imp. of Veg. Production for medical Prop:-
	· many vegetable deposses medical value
	For curing certain diseases.
_	many solanaceae foucurbitaceae veg.
	Posses vit.D.
į.	· onion & garlic Posses anti bacterial Propert
	· Scope of Vegetable growing in Indias-
	(i) Eating habits of Indian man-
	3
	(ii) Area Under Veg. Crops.
	(iii) Higher Yield From Ueg. (rop.
	(iv) Present agricultural Policies.

(u) Increase in literacy rate of our country. construction of new Irrigation Projects (vi) Due to (vii) Due to Increase in Fertilizer Industries of their production. capacity OF new Varieties. Cviii Innovation of cold storage Facility. of (ix) Availability transportation facility. in (x) increase (xi) Due to availability of cold storage facility.

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que- 2]	Enlist types of Vegetable garden, Explain any one;
101 1-	· Different Types of Vegetable garden:
	(a1) Home or kitchen or amateur gardening.
To h	(02) Commercial Vegetable gardening:
	(i) market gardening.
Grand Control	(ii) Truck gardening or Farming.
ASHADIAL .	CIID Vegetable Forcing.
	(iv) Vegetable For Processing - O canning,
	1 Freezing 1 Dehydration 1 Pickling & Fermentation.
	(v) Veg. gardening For Seed Production.
ART V	(vi) Floating Vegetable gardening.
	- Classicania and facility of Section ?*
MOSSICULA	· Market gardening :-
- 31 CF 1	- It is branch of veq. growing whose object is
	to produce veg. For local market.
	- Gardens are located 10-15 miles in vicinity of
	city area-
10 Y	-As gardens are located near city area
	the cost of land, labour is high.
dishar.	- For market gardening coops like leafy
	veg, cabbage, cauliflower, tomato, chilli retc-
Estima I	- Short duration of early high yielding
er ere	
	· stray · notes on square and the
	Anti-land transfer of specimens to

	.and
જ્યાદ-3]	Enlist different types of vegetables classification of write in brief about classification on basis of Plant Pant Consumed:
-	on Batanical or taxonomical classification.
	a) descillentian based on baraness.
	Plant Part Useditor Consumption.
	4) - Cultural requirement   method or collivation.
galous of	5) Season of Cultivation.
	6) - Salt toterance.
ago. Furb	7) Rate of respiration.
-500	she C. aldotabat. Late 211 Up.
	·Based on Plant Part consumed 3-
9	1) Leafy Vegetable -> Amaranthus, Palak, Fenugreek.
. 21 toold	2) Under ground veg- Raddish, carrot, onion, garlic.
	3) fruit - Tomato, chilli, brinjal, okra, Peas.
Re ptionist	4) Flower - cauliflower, Brussel's Sprout.
	s) Tuber → Potato, Sweet Potato.
05.00	print was bulgasi see someone pet
	· Based on method of culture &-
(Acol	1) Perennial Veg Asparagus, Parwal, Tondall.
	2) Greens - Spinach.
phiti	3) Saled crops - Lettuce, celery.
utor-tree	4) cole crops cabbage, cauliflower.
	5) Bulb crops - onion, garlic.
	6) root crops - carrot, raddish.
	7) Tuber - Potato, Sweet Potato.
	8) Peas & beans - cluster bean, compea.
	9) Solancious - Tomato, brinjal chilli.
	10) cocurbits - watermeton, cucumber.
	· cacamber

	chilli:
eque-4]	Write in detail cultivation of chilli:
, <b>-</b> 01	BN- Capscicum annum L. F- solanaceae.
	(A) Soil of Climate:
	soil= · Req. Sandy loam to clay loam.
	Mell drained, dreaten,
	I subtropical
	· Req warm & humid region, temp: 20
	appropriate national red
	(B) Seed rate & sowing 8-
	Seed rate: - 1kglha. layout: Ridges & Furrow.
	Spacing: - Rainfed - 60x 45 cm.
	Irrigated- 60×60cm.
	Sowing time: - Kharif - may - June :
	Summer- January.
1097	of hisability has desired becaused
	@Improved Varieties:
	i)Agnirekha. 7 U) NP-46
	ii) musal wadi. Vi) Jwala.
	iii) Phule Jyoti. Rahuri
	Iv) Phule mukta, sai
	1 Transplanting :
	Oseedling will be ready for transplanting in
	45 days after sowing.
	(ii) on the day of transplanting deep the
	Occ.
100 May 1997	Ciii

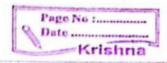


	Krishna
And the second s	
	@ manures & Fertilizers 3-
	· g-10 tonn ha Fym. at field Preparation.
	@ Irrigation: - 1st Irri :- after transplanting.
	After: 5-7 days interval.
	7-10 days Interval: - winter.
	@ Harvesting & Yields-
	· Harvesting done - Purely green.
100	rield: Rainfed - 200-400 kg/acre.
	Irrigated - 600-1000 Kg   acre.
	(A) Pests & Diseases 8-
	Pest:-i)chilli thrips li)Pod borer lii)Aphids.
	Disease:-1) Damping Off ii) Bacterial leaf Spot.

que- 5)	write in brief cultivation of cauliflowers-
	BN + Brasilca oleracea var. F- cruciferae.
	botrytis L.
The same of the sa	A Soil & climates-
	Soil = · Rieg · rich in nutrients, adequate moisture,
	good drainage fit should contain organic matter.
	· Sandy loam (early) and clay loam (date).
	·PH= 6.0-7.0.
16	Climate = · Grow best in cool of moist climate.
469619191-11	Temp = 50-70°F required.
	and the state of t
	B Intercultural Operations: (Blanching): (Short note)
	1) Blanching is an essential operation to Protect
3.00	heads From Sun burning & Yellowing
dicto.	
	tiening the tips of leaves when heads are formed.
	iii) After transplantation blanching Should be
	only done when head has fully grown, This process
.619.	Known as blanching.
pacin	against a metaliat anoth assert countries.
1 1130	© Fertilizers managements-
	· 15-20 tonnes Fym/ha.
Han . Me	. 100:50:50 NPK Kalha.
	- questation lithicana
	6 seed & Sowing?
	Seed rates 600-750 smlha fox early varieties.
	· 400-500 gm/ha — late —
	spacings- Ridges & Furrow.
	60x60 cm For late -
	Gox 60 cm For late
The Prince of the Landson	



	Page No :  Date  Krishna
	Transplanting From nursary bed after 3-4 weeks
	- 1
	ob Sowing.
	i) Pusa Katki iii) Snow ball.
( )	1) Pusa Katki 11) Pusa Deepali 10) Pusa shubhra.
.164	13 POSA PEEPAN Times and where a
	( Harvesting & Yield:
	Harvesting + Harvested by Picking method.
	Harvested when curds are well developed.
	vield: 200-250 9+1/ha - early crops.
(31%)	250-300 9+1/hq- in late crops.
+10+-1	of gornioso information on all palabactural
	@ Physiological disorders:
A fall.	i) Buttoning. (iii) Browning. v) whiptail.
	ii) Ricyness. IW Blindness.
sá blu	it puidagers' contenu paret result ti
some i	Whiptails (short note).
	1) caused due to molebdenum deficience.
	ii) Young Plants turn white perticularly along
	leaf margins & also become cupped & whiter & dies.
	iii) Apply molabdenum to control it.
	iv) leaf blade do not develope properly, only
	midril develop.
	The send of Sourings

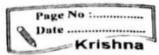


	ermoley is the local value of
que-6]	Write in brief cultivation of Potato:
o, tove	BN + Solanum tuberosum L. F+ Solanaceae.
	The second of th
5.53	8 Soll & climates-
S. Meta	Soil = · Deep. Fertile, Sandy to clay loam with ahalding capacity.  · Req. good gerated soil.
divolviron:	climate= · cool Season crop & moderately tolerant to frost.
	• Temp 18-30°C.
	16111 10-30 C
	@ Intercultural Operations:
- Ilwaria	@earthing up: Giving Support of Stakes to wines.
ninger.	B Pehaulming:
	· Removal of top Portion of Potato in Seed Coop.
	to avoid spreading of virus carrying Insects, vector called-1-
	· It should be done either by cutting or
	Killed by herbicides . 29. Poraphoid. (Seed treatment).
	MTE Addance . S.
	Olmproved Varietiess-
crah	i) Kurfi Sindhuri. IV) Kurfi Jyoti.
	ii) kurfi pewa v) Kurfi Bahar
	lii) Kurfi (alima vi) Kurfi Ashaka.
	- the property of the property of
	1 Harvesting & Yield:
	Harvesting= Harvested when wines are day.
	· Harvested when by digging.
	· Kept in Shed after harvesting.
	vield= 20-25 tonnes/ha.



	Secretary and the secretary an
	@ Nutritional Valuess-
5	in an atom over Imp. Staple Food Col.
	iii) Patataes are used alone & mixed with mean,
And the second	Cial allaran & ather Vegetables.
	iii) In big cities, and town - tolard
· physique	Commercially:
	LIN PATATA is rich in Starch & Contains tooleins,
took it haut	minerals & a fair amount of vitamins, Perticularly invite
	V
	@ Seed & sowings-
	Sowing time : 25 sept - 10 oct.
. 77	Spacing :- Hilly - 60x30, Planted in Furrows.
	plain- 30cm apart — 1 stages.
9060 1000	Seed rates- 800-1000 kg/ha.
	Man
	nither and relian earth and through with
* (50.74)	@ Fertilizer & manures 8-
	·30 tonn/ha FYM
	Irrigation: - Frequent Irrigation.
	1st Irrigation: - after sowings
	one week Intervals.
	- English vit kind Eshaga
	(H) Pest & diseases?
	Pest = Aphids, Leafy hopper, cut worms.
	Diseases= Late Blight :- Fungal.
	Farly Blight!
Haza	Bacterial wilt:
	- Printed Server - block

		Continues with the state of the state of the
2	Q4e-7]	Write in detail cultivation of okaq:
	-	BN> Abelmoschus esculentus L. F> malNaceae.
$\sim$		(A) Soil & climates
		Soil: · Sandy loam & clay loam - best.
	Shirt no.	·PH=6.0-6.8.
	e. polici	· Land is prepared by 1-2 Ploughing.
it-c		climater - warm season crop.
		· Highly Sensitive to Frost.
	,	· Temp req. more than 20°C.
		@ Seed & Sowing &-
		Seed rate: - 8-10 kg I ha - rainy season.
Total Control		12-15 Kg Iha - Summer
		Sowing time: - kharif ! - June - July .
		Summer! - Jan- Feb
		winter: Aug-sept.
- 1		layout!- Ridges & Furrow.
		- Spacing :- Summer = 43×30 cm.
2000		Rainy = 60×45 cm.
1000		
_		@ Improved Varietiess-
_		1) Phule Kirti - MPKV Rahuri IV) Phrbhani Kranti.
		ii) Pusa makhamali v) Padmini
_		iii) Pusa Sawani vi) Arka anamika.
_		V s m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
_		@ manures & fertilizers ?-
_		· 120-25 tonn/ha - FYm.
_		· 100 kg N, 50 kg P205,
-		· Bokg kro.
20/100		



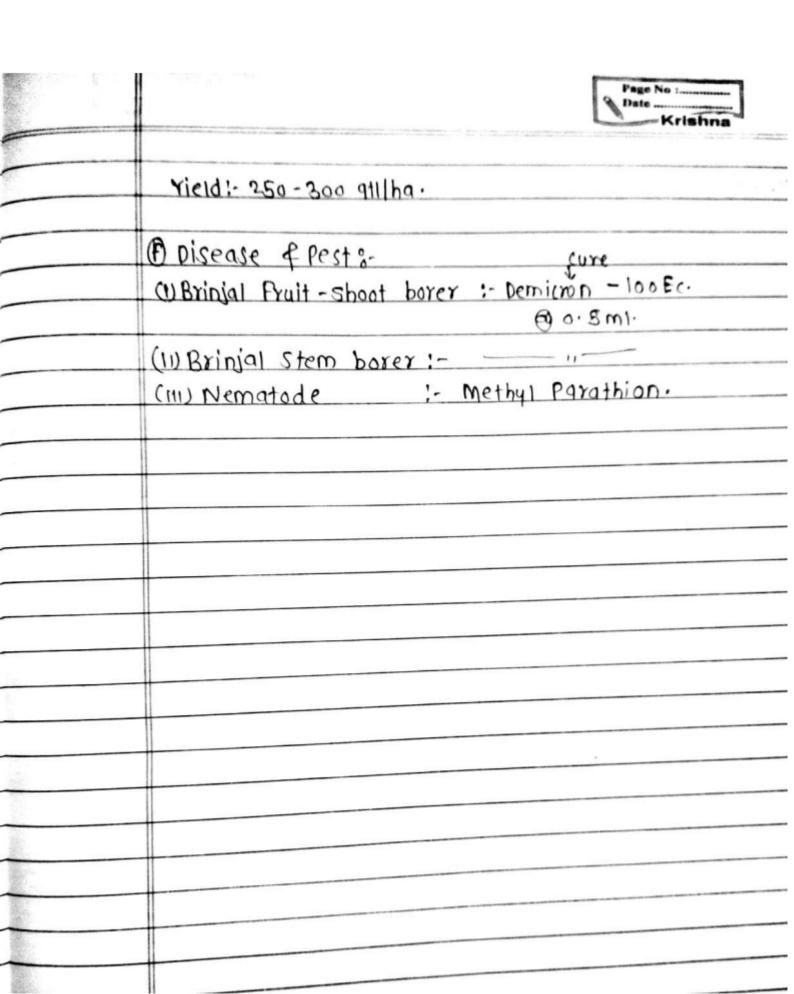
	Page No : Date Krishna
	Irrigation :- 1st Irri. !- Just after sowing.
	After 4-5 days 1-10 summer.
	8-10 days! - In winter.
	@ Harvesting & Yield & After 3-5days
	attaxpection = Fruit ready to harvest ! after flowering.
	Flowering: -35-40days after sowing.
	Brield: 7500 kg/hg - rainy.
	5000 kg/hg - Summer.
	crop duration: -90-100 days respectively
	Prests & Diseases:
	Pests = Stem & Fruit borer, Jassids.
	Diseases = 'Yellow Vein masaic.
	· Die back ·
	Challe to four tights
	and the first Square to provide and the
	the state of the s
- 5	Manual Indiana da

	The state of the s				
que-8]	Write in detail cultivation of Tomato:				
-	BN > Lycoperscion esculentum F > Solanaceae.				
	mill.				
	A Soil & climates-				
	Soil= Well drained, Sandy loam Soil.				
	·Soll should be well Prepared & levelled by				
	Plauabling the land 9-5 times.				
	10H = 6.0-7.0 = best.				
b .pnitilir	climate: Warm Season Crop, warm, Sunny weather is				
	The second of th				
and or rei	cultivation= 15-27°C.				
	B) Seed & Sowing:				
440	Sowing times- kharif-coop- may-June.				
entry.	Rabi crop - Aug-septe.				
	Summer - Dec-Jan.				
	Seed rate: 500-600gm/ha.				
	Transplanting: After 3-4 weeks old.				
	Spacing! - 60-75×60cm.				
Mary otal (	Layout! - Ridges & Furrow.				
trape at the	parting of a supplication and the second sec				
	@ Improved Varieties &-				
	i) Bhagyashree — (mpkv Rahuri).				
	ii) Phanashree — (mpku Rahuri).				
	iii) marglobe, Pusa Rubi.				
	IV): Sioux, Punjabi chohra.				
no taux	v) Physe Raja.				
	stablisher shows a stable por also				
• 1	•Intercultural Operations8-				
taws					
rlanbino -i ta	i) Training ii) Prunning iii) Staking.				
5/01/2P					

	1 manuring of Fertilizers 8-			
	Bo to So cartloads of FYM.			
	·100:50:50 NPK Kalha.			
	Invigation: 0-2 times in month - Rainy season.			
	7-10 - winter			
F	7-10 — — — winter Twice a week — symmer			
	@ Harvesting & Vield &-			
	@Harvesting & Graceing by band.			
Si Keyper	· pislodging From vine by twisting.			
17/18 -	· Keeping · thumb pressed ·			
.)"(8	(1) Green stage: - Fortnight before developing redness			
	trace at styler fruit deu pormaluinen			
	- Sent to distant market.			
	(2) Pink Stage: Red/Pink colour on surface.			
	not Full riped: Picked for local market			
	(3) Ripe Stage: most fruits are red.			
	Fruit Saftening Starts.			
	Picked For home Itable use.			
	(4) Fully Ripe : - feel soft, Starch changed into sugar			
	· Used for canning, Pickling Within 24hr.			
	rield: - · Soo-looo atliha hybrid.			
	160-200 quintad/ha -			
	Duration: 160-180 days.			
	the training country to the			
	(E) Nutritional & medicinal value:			
	@ Nutritional :- · Contains considerable amount of			
	* ca & vit. K & provide antioxidants.			
	• It contains sugar & starch.			
	(D) Modicinalis			
	Several types of concer. Lycopene is natural anti-oxidant natural sunger ream.			
	110000013			

que-9]	write in detain cultivation of Rose:					
-	BN+ Rosa indica F+ Rosa lege.					
	ACTIVED Contractor 9					
	(A) classes & classification:					
	A) old garden Roses or wild Roses:					
	i) European xwild roses f					
Wild less tray	ii) Asian   China rose x wild roses.					
BY SYN Y	B) modern garden roses:					
	i) Hybrid Teq. (HT).					
0.0 500	ii) Floribunda. u) Ramblers.					
111) 40-41 cm	lii) miniature. vi) creepers / climbers.					
* † 1	Lay - I					
* of the second second because the						
	B Propogations-					
	Commercial methods of Propagations-					
	1) cutting: - Youtstocks of modern voses, miniatures,					
	Shrub, climbers & rambler are usually propagated by					
ABGOT AFILE-19	-cutting (stem cutting):					
	· 2) By budding 8- Hybrid Teas & Flori bunda are					
	multiplied by shield budding. Their most Favourable					
1050 AU 1057	Season is winter Season i.e. oct-Jan.					
	Rootstocks: i) Rosa multiflora.					
	ii) Rosa Indica var. odorata.					
	iii) Rasa Edwarf.					
	Canita of the case					
	@ Planting & methods :-					
	Planting: - 45cm width & 60 cm depth (Pits).					
	· Filled with Fym + Sand + bone meal.					
	and the second of the second o					

QUE-10	write in detail cultivation of BRINJAL 1866 PLANT					
<u> </u>	BN+ Solanum melongena L. F+ Solanacege.					
	(A) Soil & climates					
+ 17	Sails can be arown on diff soils.					
	Grows well in fine, rich, deep well drained, loan.					
200	· PH= 5.5-6					
	· Long dwarf crop: soil should be well Ploughed					
	(B) Seed & Sowings-					
	Sowing time: · Binneial coop: - Grow twice in year.					
	·may-Jun, Aug-Septe, Dec-Jan.					
	Seed rater- 600-700 gm/ha.					
	Spacing: 75 x 60 cm to 75 x 75 cm.					
layout:- Ridges & Farrow.						
	, ,					
	O Varieties:					
	i) Krishna (MPKU Rahuri).					
	ii) Phule harit (mpkv Rohuri).					
	iii) manjari gota ( ——)					
lu) Pusa Purple long.						
	1 manures & fertilizers 8 30-50 cartloads frm.					
	100:50:50 NPK Kg/hq.					
	Irrigation: Summer - Every 3rd - 4th day.					
	winter - Every 7th - 10th day.					
	· · · · · · · · · · · · · · · · · · ·					
	B Harvesting frields-					
	· cutting by small knife.					
	· Harvested when Immature good sized.					
	Jood Grad					
- 1						





	Krishna
	objectives -08 mark
Que-1]	Do as directed?  Ourose is a national Flower of which countries. (USAFIRAN)
	(on spell out abbreviation of IIVR: (Indian Institute of Veg. Research).
	(3) Konkan Ashwini is the name of Sweet potato Variety released by Dr. BSKKV, Dapoli.
	(4) where is Lalbagh botanical garden is located > (Bangalore Karnataka).
	(DTWO Potato Varieties Suitable For Processing: (1) Kufri Alankarii) kufri Laukar.
	© Two disections cucurbits -> watermelon & musk melon.
	(9) Two examples ofor hedges - (puranta, Kanchan).
	(8) Two ex. for Indore gardening: (Aralla, Anthurium).
	(9) Two ex. of commercial Flowers Propagated by - marigolds



que- 2]	Fill in the blanks:
-	(01) Separation of Stalk From vine with slight jerk is
	maturity indices of (musk melon) crop.
	March a market a start to the cold
	(2) Turning of vines is Interculture operation in Sweet
	Potato Veg. crops.
	the stand of mod maked trakes
	(3) Greening of Potato is due to Solanin.
	the total of malling on 19 Co
	(4) Red colour of tomato is due to Lycopene Pigment.
	ne fartie national danced and from 1999
	(S) BN - Potato = Solanum tuberosum.
	appear the feet of grants 2 (81)
	(OBN - muskmelon = cucumis melo.
(Damatu	Placton Park toria toria
	(1) Family of Gerbera = compositege.
	1000 -7 5 1000 (40)
	(8) Tuberose Is Propagated by Bulb.
	dance of talemond (AD)
	(9) BN-mogra = Jasminum Sambac.
	. To Apperture that 1- destructor
	(10) kitchen gardening is extensive type of Vegetable
	Cultivation.
	STORY ST. BURE HAR ! HEARING WIDE
	(11) Red colour of chill is due to capsanthin.
	· minused Charge will till
	(12) (methi) is a leguminous: leafy vegetable.
	acts) index, pignite Easternian

Que-3]	Match the Pairs:
φ(16.2)	as should dely and then I then to principle in
	(ou marigold: - Tagets species.
	(2) Sweet Potato :- Konkan Ashwini.
4.	(3) Jasmine: - Oleacege.
	(4) Garlic :- Godavari.
	(5) Indian bean :- Dipali.
	ning alimb of terms is not in the
	(6) Bougainvillea :- climber
.1.	(7) Sponge gourd: Posa chikni.
	(8) Polichos bean: Konkan Bhushan.
	(9) chrysanthemum: Disbudding.
	(10). Celery :- Salad Veg.
	· of early field and in a feature of the factory
Q-	Crop Plant Part used for Propaga
	(an Inperose :- Balp
3	(or) Garlic :- corms
	(04) Drumstick :- Seed
	Seed.
	CII) Amaranthus
	(12) Pothal Species: Leafy veg.
	(13) Prooping Ashok: Avenue tree.
	The state of the s
	(15) Bitter gourd: charalle
	TUDETOSE BUILDS: - LUCATION
	(17) Indoor Plant: Dieffen bachia.



Que-4)	Define the Following Terms:			
	Cai) Staking:			
	'Providing support to plant with help of			
	bamboo Sticks, keeping Stem Straight? Ex. Tomato.			
	(2) Pinching:			
	'Removal of growing point of a shoot			
	along with few leaves. Ex-marigoid.			
	(3) Disbudding 8-			
	'Removal of all buds except one or two			
	Stems. obj. of disbudding is to get large Size, quality			
	blooms over a long period by discouranging the			
	development of lateral shoots.			
	(4)			
	•			