DISEASE CONTROL

Disease	Symptom	Control
1.ROSE		
Powdery Mildew Sphaerotheca pannosa var. rosae	The disease first appears on the young leaves, blister like areas that soon become covered with a grayish, white, powdery fungus growth.	The fungal antagonist <i>Sporothrix flocculosa</i> , spray Bavistin or Benlate (0.1%) at 30 days interval regularly. Wettable sulphur (0.2%), propiconazole (0.1%) and Karathane (0.05%) may be used at 7-10 days interval
Die Back Diplodia rosarum	The pathogen gets entry into the host tissue through the minute injuries caused by digger wasp. The disease causes death of the plant from tip downwards.	Cut away the infected plant part and burn it. Cut ends immediately coated with chaubatia paste containing 4 parts of copper carbonate, 4 parts of red lead and 5 parts of linseed oil.
Black Spot Diplocarpon rosae	Spotting and etiolation of the leaves followed by defoliation. Dark brown to black spots, circular or sub circular and usually separate and distinct.	Spray of Bavistin (0.1%) followed by Benlate (0.1%) at 15 days interval; Dithane M-45 and Dithane Z-78 (0.2%) are also useful for control.
Alternaria leaf spot Alternaria alternata	Small oval to irregular, dull brown to black scattered spots are first noticed on the margin of leaves which later enlarge and cover the entire leaf surface.	Infected leaves should be collect and burnt. Four sprays with Benlate (0.06%), Captan (0.25%) or Mancozeb (0.25%) at 10 days interval during December-January can effectively check the disease.
Rust Phragmidium spp.	Reddish-orange pustules on leaflets and petioles. The colour of these pustules changes to black when teleuto-spores are formed.	Spring pruning and dormant spray of Copper oxy chloride (0.3%) or spraying Dithane M-45 (0.2%), Vita vax (0.1%) or Benodonil (0.1%) three times at 15 days interval during March-April.
2.MARIGOLD		

Damping Off	Brown necrotic spots, girdling the radical	Follow crop rotation, prepare raised nursery beds and soil	
Rhizoctonia solani	cause pre-emergence mortality. Post- emergence symptoms appear on lower part of hypocotyls as water soaked, brown, necrotic ring leading to collapse of seedling.	drenching with Carbendazim (0.1%).	
Powdery Mildew	Whitish, tiny, superficial spots appear on	Spray Karathane @ 0.05% or Sulfex (3g/l of water) at	
Oidium sp., Leveillula taurica	leaves which later on coverage of whole aerial parts of plants.	fortnightly intervals.	
3.GLADIOLUS			
Fusarium Rots and Yellows	Curving, bending, arching, stunting,	Dipping of corms in 0.1 per cent Carbendazim before	
(core rot, vascular disease)	yellowing or drying of leaves associated with root and corm rot in field as well as in	planting. Heat treatment of cormels 57.2 °C up to 30 minutes	
Fusarium oxysporum f. sp. Gladioli	storage.		
Core or Spongy Rot	Small spots appear on leaves and develop	Spray Mancozeb sprays @ 0.2% and hot water treatment	
Botrytis gladiolorum	into large spots covered with mould, soon killing the leaves.	of corms at 52 °C	
Dry or Neck Rot	The leaves turn brown from the tips	Follow crop rotation and corms treatment with Thiram or	
Stormatinia gladioli	downward and at bases they decay causing neck rot but corms remain attached to the stem firmly.	Dichloran (0.3%).	
4.CHRYSANTHEMUM			

Bacterial Blight	The stem tips turn brown, brittle and	Destruction of affected plants, soil sterilization, using
Erwinia chrysanthemi	collapse, hollow stem with brownish streaks	healthy plant material, spray of Streptocycline (0.01%).
Bacterial Leaf Spot	Dark brown to black slightly sunken spots	Using healthy plant material and spray of Streptocycline
Pseudomonas cichorii	having concentric zonation on leaves.	(0.01%).
Foot rot	Very common in warm moist conditions,	Use biofungicide (Bacillus subtilis and Kaslin) and spray
Rhizoctonia solani	mushy brown rot of stem and leaves.	Benomyl (0.2%).
Powdery Mildew	White powdery growth on the upper	Spraying with Karathane (0.025%), Bavistin (0.1%) or
Erysiphe cichoracearum	surfaces of the leaves, flower and stem.	sulphur based fungicide (0.2%).
Flower Bud Rot	Rotting of the buds with brown scorched	Infected plant debris should be destroyed and burnt.
Erwinia sp.	necrotic discoloration of peduncles.	Trips are vector, spray rog0r @ 2ml /l.