Roll. No							Question Booklet Number	
O.M.R. Serial No.								

M.Sc. (SEM.-IV) (NEP) (SUPPLE.)EXAMINATION, 2024-25 BOTANY

(Advanced Plant Pathology)

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Time: 1:30 Hours

Question Booklet Series

A

Max. Marks: 75

Instructions to the Examinee :

- Do not open the booklet unless you are asked to do so.
- The booklet contains 100 questions.
 Examinee is required to answer 75 questions in the OMR Answer-Sheet provided and not in the question booklet.
 All questions carry equal marks.
- Examine the Booklet and the OMR
 Answer-Sheet very carefully before you proceed. Faulty question booklet due to missing or duplicate pages/questions or having any other discrepancy should be got immediately replaced.
- 4. Four alternative answers are mentioned for each question as - A, B, C & D in the booklet. The candidate has to choose the correct / answer and mark the same in the OMR Answer-Sheet as per the direction :

(Remaining instructions on last page)

परीक्षार्थियों के लिए निर्देश :

- प्रश्न-पुस्तिका को तब तक न खोलें जब तक आपसे कहा न जाए।
- 2. प्रश्न-पुस्तिका में 100 प्रश्न हैं। परीक्षार्थी को 75 प्रश्नों को केवल दी गई OMR आन्सर-शीट पर ही हल करना है, प्रश्न-पुस्तिका पर नहीं। सभी प्रश्नों के अंक समान हैं।
- उ. प्रश्नों के उत्तर अंकित करने से पूर्व प्रश्न-पुस्तिका तथा OMR आन्सर-शीट को सावधानीपूर्वक देख लें। दोषपूर्ण प्रश्न-पुस्तिका जिसमें कुछ भाग छपने से छूट गए हों या प्रश्न एक से अधिक बार छप गए हों या उसमें किसी अन्य प्रकार की कमी हो, उसे तुरन्त बदल लें।
- प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार सम्भावित उत्तर- A, B, C एवं D हैं। परीक्षार्थी को उन चारों विकल्पों में से सही उत्तर छाँटना है। उत्तर को OMR उत्तर-पत्रक में सम्बन्धित प्रश्न संख्या में निम्न प्रकार भरना है:

(शेष निर्देश अन्तिम पृष्ठ पर)

The fat	her of Plant Pathology is:				(C)	Tilletia indica
(A)	Anton de Bary				(D)	Ustilago maydis
(B)	Robert Koch			6.	Red r	ot of sugarcane is caused by:
(C)	M.S. Swaminathan				(A)	Fusarium oxysporum
(D)	E.J. Butler				(B)	Colletotrichum falcatum
	·	ed			(C)	Alternaria alternata
(A)	Bunchy top of banana				(D)	Cercospora apii
(B)	Citrus tristeza			7.	Citrus	canker is caused by:
(C)	Tobacco mosaic disease				(A)	Agrobacterium tumefaciens
(D)	Potato leaf roll				(B)	Xanthomonas citri
, , ,					(C)	Erwinia carotovora
to:					(D)	Pseudomonas syringae
(A)	Rust fungi			8.		vall.degrading enzymes produced by
(B)	Powdery mildew				patho	gens include:
(C)	Leaf spot fungi				(A)	Amylase, protease, cellulase
(D)	Smut fungi				(B)	Pectinase, cellulase, hemicellulase
Late bl	ight of potato is caused by:				(C)	Lipase, catalase, oxidase
(A)	Phytophthora infestans				(D)	Urease, dehydrogenase, kinase
(B)	Puccinia graminis			9.	Pecti	nases secreted by pathogens
(C)	Ustilago maydis				prima	rily help in:
(D)	Alternaria solani				(A)	Breaking starch
Loose	smut of wheat is caused by:				(B)	Hydrolyzing cutin
(A)	Ustilago tritici				(C)	Softening middle lamella
(B)	Puccinia recondita				(D)	Detoxifying phenolics
02T-A/	132	(3)		[P.T.O.]
	(A) (B) (C) (D) The first by a vi (A) (B) (C) (D) The compathogs to: (A) (B) (C) (D) Late bl (A) (B) (C) (D) Loose (A) (B)	(B) Robert Koch (C) M.S. Swaminathan (D) E.J. Butler The first plant disease shown to be cause by a virus was: (A) Bunchy top of banana (B) Citrus tristeza (C) Tobacco mosaic disease (D) Potato leaf roll The concept of "physiological race" h pathogens was first introduced in relatito: (A) Rust fungi (B) Powdery mildew (C) Leaf spot fungi (D) Smut fungi Late blight of potato is caused by: (A) Phytophthora infestans (B) Puccinia graminis (C) Ustilago maydis (D) Alternaria solani Loose smut of wheat is caused by: (A) Ustilago tritici	(A) Anton de Bary (B) Robert Koch (C) M.S. Swaminathan (D) E.J. Butler The first plant disease shown to be caused by a virus was: (A) Bunchy top of banana (B) Citrus tristeza (C) Tobacco mosaic disease (D) Potato leaf roll The concept of "physiological race" h of pathogens was first introduced in relation to: (A) Rust fungi (B) Powdery mildew (C) Leaf spot fungi (D) Smut fungi Late blight of potato is caused by: (A) Phytophthora infestans (B) Puccinia graminis (C) Ustilago maydis (D) Alternaria solani Loose smut of wheat is caused by: (A) Ustilago tritici (B) Puccinia recondita	(A) Anton de Bary (B) Robert Koch (C) M.S. Swaminathan (D) E.J. Butler The first plant disease shown to be caused by a virus was: (A) Bunchy top of banana (B) Citrus tristeza (C) Tobacco mosaic disease (D) Potato leaf roll The concept of "physiological race" h of pathogens was first introduced in relation to: (A) Rust fungi (B) Powdery mildew (C) Leaf spot fungi (D) Smut fungi Late blight of potato is caused by: (A) Phytophthora infestans (B) Puccinia graminis (C) Ustilago maydis (D) Alternaria solani Loose smut of wheat is caused by: (A) Ustilago tritici (B) Puccinia recondita	(A) Anton de Bary (B) Robert Koch (C) M.S. Swaminathan (D) E.J. Butler The first plant disease shown to be caused by a virus was: (A) Bunchy top of banana (B) Citrus tristeza (C) Tobacco mosaic disease (D) Potato leaf roll The concept of "physiological race" h of pathogens was first introduced in relation to: (A) Rust fungi (B) Powdery mildew (C) Leaf spot fungi (D) Smut fungi Late blight of potato is caused by: (A) Phytophthora infestans (B) Puccinia graminis (C) Ustilago maydis (D) Alternaria solani Loose smut of wheat is caused by: (A) Ustilago tritici (B) Puccinia recondita	(A) Anton de Bary (B) Robert Koch (C) M.S. Swaminathan (D) E.J. Butler The first plant disease shown to be caused by a virus was: (C) (A) Bunchy top of banana (B) Citrus tristeza (C) Tobacco mosaic disease (D) Potato leaf roll The concept of "physiological race" h of pathogens was first introduced in relation to: (A) Rust fungi (B) Powdery mildew (C) Leaf spot fungi (D) Smut fungi (D) Smut fungi (D) Smut fungi (E) Late blight of potato is caused by: (C) Ustilago maydis (D) Alternaria solani (D) (D) (A) Ustilago tritici (C) (B) Puccinia recondita (A) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C

10.	Cutinas	se enzyme helps the pathogen in:			(C)	Catalase		
	(A)	Penetration of epidermis			(D)	Lipase		
	(B)	Colonization of vascular bundles	1	15.	Which	bacterial toxin causes chlorosis in		
	(C)	Disrupting chloroplast function			tobacc	tobacco plants?		
	(D)	Inhibiting host respiration			(A)	Tabtoxin		
11.	Toxins that affect a wide range of plants a				(B)	Victorin		
	termed:				(C)	Fusicoccin		
	(A)	Host-specific toxins			(D)	Phaseolotoxin		
	(B)	Non-host-specific toxins	,	16.	Plant	viruses are most commonly		
	(C)	Enzymatic inhibitors		10.		itted by:		
	(D)	Alkaloid toxins			(A)	Wind and rain		
12.	Which of the following correctly matches enzyme with its substrate?				(B)	Insect vectors (aphids, whiteflies)		
	(A)	Cutinase - cellulose			(C)	Soil fungi		
	(B)	Cellulase - cutin			(D)	Nematodes only		
	(C)	Pectinase - pectin	,	17.	Nemato	odes cause plant disease mainly by:		
	(D)	Protease - starch			(A)	Releasing cutinase enzymes		
13.		Bacterial pathogens most commonly enter plants through:			(B)	Mechanical penetration + secretion of cell wall-degrading enzymes		
	(A)	Epidermal cells			(C)	Injecting toxins via stylet		
	(B)	Wounds and natural openings			(D)	Both (B) and (C)		
	(C)	Direct penetration of cuticle	,	18.	Enzvm	es like polygalacturonases degrade:		
	(D)	Root hairs only			(A)	Cellulose microfibrils		
14.		ain enzyme involved in degrading)					
	host cell walls by bacteria is:				(B)	Middle lamella pectins		
	(A)	Amylase			(C)	Cuticle layer		
	(B)	Pectin methyl esterase			(D)	Chloroplast membranes		
B0410	02T-A/	(132	4)				

· ·		of the following is a pre-existing ural defense in plants against	23.	Pheno defens	olic compounds in plants act as se by:		
		Cuticle		(A)	Acting as energy source for fungi		
	(A)			(B)	Inhibiting enzymes of pathogens		
	(B)	Phytoalexins		(C)	Weakening host cell wall		
	(C)	Hypersensitive reaction		(D)	Increasing pathogen sporulation		
	(D)	Lignification	24.	Which	of the following best describes		
20.		eposition of callose and lignin at the infection is an example of:		phytoa	phytoalexins?		
	(A)	Pre-existing chemical defense		(A)	Constitutive antifungal compounds present before infection		
	(B)	Induced structural defense		(B)	Inducible antimicrobial compounds		
	(C)	Hypersensitive response			synthesized after infection		
	(D)	Systemic acquired resistance		(C)	Waxy layers secreted on cuticle		
21.	Which	of the following is not a pre-existing		(D)	Proteins involved in nitrogen fixation		
	chemic	al defense in plants?	25.	•	persensitive reaction is most effective		
	(A)	Phenolic compounds		agains			
	(B)	Saponins		(A)	Necrotrophic pathogens		
	(C)	Phytoalexins		(B)	Biotrophic pathogens		
	(D)	Alkaloids		(C)	Saprophytic fungi		
22.	Which	defense mechanism in plants is rapid,		(D)	Mycorrhizal fungi		
	localize cell de	ed, and associated with programmed ath?	26.		of the following is a pre-existing nical barrier against pathogen entry?		
	(A)	Callose deposition		(A)	Stomatal closure		
	(B)	Hypersensitive reaction		(B)	Trichomes		
	(C)	Phenolic oxidation		(C)	Phytoalexins		
	(D)	Systemic acquired resistance		(D)	HR (hypersensitive reaction)		
B0410	002T-A/	(132	5)		[P.T.O.]		

27. Hydrolytic enzymes such as chitinases and 31. Which of the following is a phenolic glucanases produced by plants are phytoalexin? examples of: (A) Glyceollin (A) Pre-existing structural defense Phaseollin (B) (B) Induced chemical defense Resveratrol (C) Hypersensitive reaction (C) (D) All of the above Cuticular defense (D) 32. The phenolic compound tannin protects 28. A classical example of phytoalexin from plants by: soybean is: (A) Crosslinking with microbial (A) Medicarpin enzymes and proteins (B) Pisatin (B) Softening cell wall to prevent (C) Glyceollin infection (D) Phaseollin (C) Feeding beneficial fungi 29. When a pea plant is infected by Fusarium (D) Triggering pathogen sporulation oxysporum, which phytoalexin is accumulated at the infection site? 33. Which of the following is a cultural practice for disease management? (A) Glyceollin (A) Crop rotation (B) Resveratrol (C) Pisatin Seed treatment with fungicide (B) (D) Medicarpin Application of biocontrol agent (C) 30. The formation of tyloses (outgrowth of (D) Genetic engineering of plants parenchyma into xylem vessels) helps the 34. The Bordeaux mixture used in plant disease plant by: control contains: (A) Increasing water conduction (A) Copper sulphate + lime (B) Blocking pathogen movement in xylem (B) Copper sulphate + sulphur (C) Promoting fungal colonization (C) Lime + zinc sulphate (D) Secreting phytoalexins directly

Sulphur + kerosene

(D)

(6)

35. Biological control of plant diseases 40. Roguing in plant disease management generally involves: refers to: Application of herbicides (A) (A) Removal of weeds from the field (B) Use of antagonistic microorganisms Removal and destruction of (B) (C) Application of mineral oils diseased plants (D) Genetic modification of pathogens Application of pesticides before (C) 36. Trichoderma species are effective as: flowering (A) Bacterial biocontrol agents Harvesting at early stage (D) (B) Mycoparasites against soil-borne 41. Pseudomonas fluorescens is widely used fungi in plant disease management as a: (C) Viral biopesticides Nitrogen fixer (A) (D) Nematode repellents (B) Biocontrol agent producing 37. Which is an example of a biopesticide? antibiotics and siderophores (A) Neem-based formulations (Azadirachtin) (C) Growth regulator (B) Carbendazim (D) Systemic fungicide (C) Malathion 42. Which of the following is a microbial (D) Glyphosate biopesticide effective against insects? 38. Plant quarantine is important because it: Bacillus thuringiensis (Bt) (A) (A) Increases crop yield directly (B) Trichoderma viride Prevents introduction and spread of (B) Rhizobium leguminosarum (C) exotic pathogens (C) Acts as a fertilizer substitute (D) Glomus fasciculatum Controls weeds (D) 43. The strategy of "avoidance" in disease 39. An example of a successful quarantine management involves: measure in India is the prevention of entry (A) Growing crop in areas or seasons of: unfavorable for pathogen (A) Coffee rust (Hemileia vastatrix) (B) Destroying infected plants (B) Banana bunchy top virus Using resistant cultivars (C) (C) Late blight of potato (D) Applying fungicides Red rot of sugarcane (D)

(7)

[P.T.O.]

44. Neem oil is used as: 49. Assertion (A): Crop rotation helps in reducing soil-borne diseases. (A) Chemical fungicide (B) Biopesticide and insect repellent Reason (R): Continuous monocropping (C) Soil fumigant increases pathogen inoculum in soil. (D) Resistant variety inducer (A) Both A and R are true, and R is the 45. The gene-for-gene concept in resistance correct explanation of A breeding was proposed by: H.H. Flor (B) Both A and R are true, but R is not (A) the correct explanation of A (B) E.C. Stakman (C) Norman Borlaug (C) A is true, R is false (D) G.H. Shull (D) A is false, R is true 46. Quarantine regulations in India are governed by: 50. Match the biocontrol agent with its target (A) Plant Quarantine Order, 2003 pathogen: Protection of Plant Varieties Act. (B) 1. Trichoderma harzianum 2005 (C) Insecticide Act, 1968 2. Pseudomonas fluorescens (D) Fertilizer Control Order, 1985 3. Bacillus subtilis 47. Which method is most effective for controlling soil-borne pathogens like 4. Paecilomyces lilacinus Fusarium? (a) Root-knot nematodes (A) Soil solarization (b) Soil-borne fungi Foliar spray of fungicides (B) (C) Use of resistant rootstocks (c) Foliar fungal pathogens (D) Both (A) and (C) (d) Seedling blight 48. The principle of IPM (Integrated Pest Management) emphasizes: 1-b, 2-d, 3-c, 4-a (A) (A) Maximum pesticide use 1-c, 2-b, 3-a, 4-d (B) (B) Ecological balance and sustainability (C) 1-d, 2-a, 3-b, 4-c (C) Eradication of all microorganisms 1-b, 2-c, 3-d, 4-a (D) Genetic uniformity of crops (D)

(8)

51.		ced resistance in plants can be ered by:	56.	Which of the following is a biofumigant crop effective against soil-borne pathogens?		
	(A)	Salicylic acid		(A)	Mustard (Brassica spp.)	
	(B)	Jasmonic acid		(B)	Rice	
	(C)	Ethylene		(C)	Maize	
	(D)	All of the above		(D)	Groundnut	
52.		h is the first line of defense against uction of exotic pathogens? Plant quarantine	57.	effec	tion (A): Chemical fungicides are highly tive but may cause resistance in gens.	
	(A) (B)	Resistant varieties		·	on (R): Repeated use of same	
	(C)	Biopesticides			side group selects resistant strains of	
	(D)	Fungicide sprays		•	pathogens.	
53.	Soil	solarization for disease control is tive because:		(A)	Both A and R are true, and R explains A	
	(A) (B)	•		(B)	Both A and R are true, but R does not explain A	
	(D)	heat		(C)	A is true, R is false	
	(C)	It adds nutrients to soil		(D)	A is false, R is true	
	(D)	It attracts beneficial microbes	58.	Which	n plant disease is managed by using	
54.	Which	n compound is the active ingredient in absect biopesticides?		the resistant variety "Pusa-1460" in pigeonpea?		
	(A)	Azadirachtin		(A)	Wilt (Fusarium udum)	
	(B)	Rotenone		(B)	Phytophthora blight	
	(C)	Pyrethrin		(C)	Cercospora leaf spot	
	(D)	Nicotine		(D)	Powdery mildew	
55.	Use	of marigold as a trap crop against todes is an example of:	59.		"Green Revolution" success in wheat partly due to:	
	(A)	Biological control		(A)	High pesticide use	
	(B)	Cultural method		(B)	Development of rust-resistant	
	(C)	Genetic resistance			varieties	
	(D)	Chemical control		(C)	Ban on imports	
				(D)	Biopesticides only	
B041	1002T-A	\(\sqrt{132} \)	9)		[P.T.O.]	

[P.T.O.]

60.		n PR (Pathogenesis-relate d) protein includes chitinases?	65.	Which molecules are commonly recognized as PAMPs (pathogen-associated molecular patterns)?			
	(A)	PR-1					
	(B)	PR-2		(A)	Flagellin, chitin,		
	(C)	PR-3			lipopolysaccharides		
	(D)	PR-5		(B)	DNA polymerase		
61.	Syste	emic Acquired Resistance (SAR) in			. ,		
	•	s is commonly associated with		(C)	ATP synthase		
	accur		(D)	Auxins			
	(A)	Jasmonic acid	66.	Which transgenic approach is used in plants			
	(B)	Salicylic acid			for virus resistance?		
	(C) (D)	Abscisic acid Auxin		(A)	RNA interference (RNAi)		
62.	Indu	Induced Systemic Resistance (ISR) is			Overexpression of RuBisCO		
	usual (A)	ly triggered by: Viruses		(C)	Expression of Bt toxin		
	(A) (B)	Plant growth-promoting		(D)	Knockout of resistance genes		
		rhizobacteria (PGPR)	67.		The hypersensitive response (HR) in plants		
	(C)	Fungal toxins		is characterized by:			
	(D)	UV light			·		
63.	The	"gene-for-gene" hypothesis of plant-		(A)	Localized programmed cell death		
	-	gen interaction was proposed by:		(B)	Increase in chlorophyll		
	(A)	Flor		(C)	Enhanced seed germination		
	(B)	Mendel			-		
	(C)	Borlaug		(D)	Excess water uptake		
C 4	(D)	Darwin	68.	PR p	roteins like β -1,3-glucanases act by:		
64.		Avr (avirulence) gene of pathogen acts with which plant gene to trigger		(A)	Hydrolyzing fungal cell wall glucans		
		ance?					
	(A)	PR gene		(B)	Inhibiting protein synthesis in pathogen		
	(B)	R gene (Resistance gene)		(0)			
	(C)	NBS-LRR gene		(C)	Blocking DNA replication		
	(D)	RNAi gene		(D)	Enhancing chlorophyll biosynthesis		

(10)

	primaril	ly associated with resistance against:		during	viral infections?
	(A)	Biotrophic pathogens		(A)	PR-1
	(B)	Necrotrophic pathogens and insect pests		(B)	PR-2 (β-1,3-glucanases)
	(C)	Viral pathogens		(C)	PR-5 (thaumatin-like)
	(D)	Symbiotic microbes		(D)	All of the above
70.		nsgenic "Bt cotton" protects the plant	74.		of the following is a commonly used ing agent in plant pathology culture?
	(A)	Producing endotoxins from Bacillus thuringiensis		(A)	Gelatin
	(B)	Accumulating PR proteins		(B)	Agar-agar
	(C)	Activating SAR		(C)	Starch
	(D)	Inducing RNAi silencing		(D)	Cellulose
71.	•	sion of "chitinase" and "glucanase" enes in crops provides resistance	75.	,	Potato Dextrose Agar) medium is videly used for the isolation of:
	(A)	 Fungal pathogens		(A)	Viruses
	(A) (B)	Viruses		(B)	Fungi
	(C)	Insects		(C)	Bacteria
	(D)	Nematodes		(D)	Nematodes
72.		ig-zag model" of plant immunity was	76.	The co	orrect composition of PDA medium es:
	(A)	Jones and Dangl		(A)	Potato extract, sucrose, agar
	(B)	Flor		(B)	Potato extract, dextrose, agar
	(C)	Borlaug		(C)	Potato peel, yeast extract, agar
	(D)	Stakman		(D)	Potato extract, peptone, agar

(11)

[P.T.O.]

Jasmonic acid and ethylene signaling are 73. Which PR proteins are strongly induced

69.

77.	Which dye is commonly added to selective media to inhibit bacterial growth while			The st	treak plate method is primarily used	
	culturii	ng fungi?		(A)	Isolating pure cultures of bacteria	
	(A)	Crystal violet	82.	(B)	Growing fungi in large quantity	
	(B)	Lactophenol		(C)	Testing pathogenicity	
	(C)	Streptomycin		(D)	Measuring antibiotic sensitivity	
	(D)	Rose Bengal		The serial dilution agar plate technique is		
78.	Koch's postulates are used to prove:		-	mainly used to isolate:		
	(A)	Pathogen variability		(A)	Plant viruses	
	(B)	Pathogen.host specificity		(B)	Soil microorganisms	
	(C)	A specific pathogen causes a		(C)	Obligate parasites	
	(D)	specific disease Mode of infection		(D)	Mycoplasma	
79.	Which	instrument is essential for asepticer of cultures?	83.		ation of a pathogen into a healthy plant e mainly to:	
	(A)	Autoclave		(A)	Increase yield	
	(B)	Laminar airflow chamber		(B)	Study pathogenicity	
	(C)	Centrifuge		(C)	Induce resistance	
	(D)	Incubator		(D)	Test fungicide efficacy	
80.	•	H of most culture media used for fungiusted to:	84.		standard procedure to prove genicity is:	
	(A)	4.5 - 5.5		(A)	ELISA test	
	(B)	6.0 - 6.8		(B)	Koch's postulates	
	(C)	7.2 - 7.4		(C)	Southern blot	
	(D)	8.0 - 8.5		(D)	Immunofluorescence	
	` '					

(12)

85.	Which of the following is a selective medium for fungi?		89.	Virulence refers to:			
	(A)	Nutrient agar		(A)	Qualitative presence of pathogen		
	(A)	Czapek-Dox agar		(B)	Quantitative degree of pathogenicity		
	(C)	MacConkey agar		(C)	Host defense response		
	(D)	King's B medium			,		
86.		of the following is used as an indicator		(D)	Saprophytic ability of pathogen		
	mediu	m for bacteria?	90.	The ca	ausal organism of wheat stem rust is:		
	(A)	PDA		(A)	Puccinia recondita		
	(B)	LB medium		(B)	Puccinia graminis tritici		
	(C)	MacConkey agar			•		
	(D)	Oatmeal agar		(C)	Tilletia indica		
87.	"Single	e spore isolation" h is mainly practiced		(D)	Ustilago tritici		
	for:		91.	Leaf s	pot of turmeric is caused by:		
	(A)	Pure culture of fungi		(A)	Colletotrichum capsici		
	(B)	Isolation of viruses			·		
	(C)	Isolation of nematodes		(B)	Cercospora zingiberi		
	(D)	Bacterial culture		(C)	Alternaria alternata		
88.	Patho	genicity is best defined as:		(D)	Phyllosticta zingiberi		
	(A)	Ability of pathogen to survive	92.	Wheat	ear cockle is caused by:		
	(B)	Ability of pathogen to cause disease		(A)	Anguina tritici		
	(C)	Capacity to colonize host without		(B)	Heterodera avenae		
		damage		(C)	Urocystis tritici		
	(D)	Host resistance to infection		(D)	Tilletia tritici		
B0410	002T-A	/132 (1	3)		[P.T.O.]		

93.	93. Typical symptom of blast disease on leaves is:		97.	Rust o	of linseed is caused by:
		Linear streaks		(A)	Puccinia linicola
	(A)			(B)	Puccinia triticina
	(B)	White powdery coating		(C)	Melampsora lini
	(C)	Spindle-shaped lesions with gray center & brown margin		(D)	Puccinia graminis
	(D)	Yellowing from tip downwards	98.	Phyllo	dy disease of sesamum is caused
94.		stage is associated with which rice		by:	
	diseas			(A)	Virus
	(A)	Blast		(B)	Phytoplasma
	(B)	False smut		(C)	Fungus
	(C)	Bacterial leaf blight		(D)	Bacterium
	(D)	Sheath blight	99.	A typic	cal symptom of pigeonpea wilt is:
95.	Powde	ry mildew of pea is caused by:		(A)	Leaf rolling
	(A)	Erysiphe pisi			•
	(B)	Puccinia pisi		(B)	Blackening of vascular tissue
	(C)	Peronospora pisi		(C)	White powdery growth on leaves
	(D)	Uromyces appendiculatus		(D)	Gall formation on roots
96.	Wilt of	arhar (pigeonpea) is caused by:	100.	Stem	gall of coriander is caused by:
	(A)	Fusarium oxysporum f. sp. udum		(A)	Protomyces macrosporus
	(B)	Rhizoctonia bataticola		(B)	Claviceps purpurea
	(C)	Sclerotium rolfsii		(C)	Ustilago tritici
	(D)	Colletotrichum lindemuthianum		(D)	Albugo candida
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Rough Page

Example:

Question:

- Q.1 **A © D**
- Q.2 **A B O**
- Q.3 (A) (C) (D)
- Each question carries equal marks.
 Marks will be awarded according to the number of correct answers you have.
- All answers are to be given on OMR Answer Sheet only. Answers given anywhere other than the place specified in the answer sheet will not be considered valid.
- 7. Before writing anything on the OMR Answer Sheet, all the instructions given in it should be read carefully.
- 8. After the completion of the examination, candidates should leave the examination hall only after providing their OMR Answer Sheet to the invigilator. Candidate can carry their Question Booklet.
- 9. There will be no negative marking.
- 10. Rough work, if any, should be done on the blank pages provided for the purpose in the booklet.
- 11. To bring and use of log-book, calculator, pager & cellular phone in examination hall is prohibited.
- 12. In case of any difference found in English and Hindi version of the question, the English version of the question will be held authentic.

Impt. On opening the question booklet, first check that all the pages of the question booklet are printed properly. If there is any discrepancy in the question Booklet, then after showing it to the invigilator, get another question Booklet of the same series.

उदाहरण :

प्रश्न :

प्रश्न 1 (A) ● (C) (D)

प्रश्न 2 (A) (B) ■ (D)

प्रश्न 3 **A ● C D**

- प्रत्येक प्रश्न के अंक समान हैं। आपके जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
- सभी उत्तर केवल ओ०एम०आर० उत्तर-पत्रक (OMR Answer Sheet) पर ही दिये जाने हैं। उत्तर-पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
- 7. ओ॰एम॰आर॰ उत्तर-पत्रक (OMR Answer Sheet) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ़ लिया जाये।
- 8. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी OMR Answer Sheet उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें। परीक्षार्थी अपने साथ प्रश्न-पुस्तिका ले जा सकते हैं।
- 9. निगेटिव मार्किंग नहीं है।
- 10. कोई भी रफ कार्य, प्रश्न-पुस्तिका में, रफ-कार्य के लिए दिए खाली पेज पर ही किया जाना चाहिए।
- परीक्षा-कक्ष में लॉग-बुक, कैल्कुलेटर, पेजर तथा सेल्युलर फोन ले जाना तथा उसका उपयोग करना वर्जित है।
- 12. प्रश्न के हिन्दी एवं अंग्रेजी रूपान्तरण में भिन्नता होने की दशा में प्रश्न का अंग्रेजी रूपान्तरण ही मान्य होगा।

महत्वपूर्णः प्रश्नपुस्तिका खोलने पर प्रथमतः जाँच कर देख लें कि प्रश्नपुस्तिका के सभी पृष्ठ भलीभाँति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्षनिरीक्षक को दिखाकर उसी सिरीज की दूसरी प्रश्नपुस्तिका प्राप्त कर लें।