1. F.5-2009

Serial No.

5644

B-JGT-J-BHB

AGRICULTURE

Paper—II

Time Allowed: Three Hours

Maximum Marks: 200

INSTRUCTIONS

Candidates should attempt questions and 5 which are compulsory, and any The EE of the remaining questions selecting at least ONE question from each Section.

The number of marks carried by each question is indicated at the end of the question.

Answers must be witten in ENGLISH.

SECTION - A

- 1. Answer any OUR of the following in about 150 words each:— 10×4=40
 - (a) Enumerate different biotechnological techniques being used for crop improvement programme. 10
 - (b) What are the various steps involved in the production of certified seeds?
 - (c) Describe in brief the structural and numerical changes in chromosomes.

	(d)	Discuss the relevance of male sterility in plant breeding and briefly mention its limitations.		
		6+4=10		
	(e)	Describe parthenogenesis found in insects with		
		suitable examples. 10		
2.	Write short notes on the following in about 150 words			
		h: 10×4=40		
	(a)	What is self incompatibility? He can this		
		problem in plant breeding programme be		
		overcome? $4+6=10$		
	(b)	Environment-friendly approaches in pest		
		management programme.		
	(c)	Photoperiodism. 10		
	(d)	Phytohormones and their role in plant growth. 10		
3.	Distinguish between each pair below in about			
		words each : $10 \times 4 = 40$		
	(a)	Parasite and redator.		
	(b)	Butterfly and moth.		
	(c)	Mass selection and pure line selection.		
	(d)	Imposity and resistance.		
4.	Give	e he scientific name, classification and nature of		
	damage caused of the following pests:— $10\times4=40$			
	(a)	White grub.		
	(b)	Red hairy caterpillar.		
	(c)	Brinjal fruit borer.		
	(d)	Mango jassid.		
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SECTION - B

5.	Wri	te short notes on any FOUR of the following in
	abou	ut 150 words each :— 10×4=40
	(a)	Package of practices of Maize Cultivation. 10
	(b)	Ecta-hormones. 10
	(c)	Cultural methods of pest management. 10
	(d)	Heterosis. 10
	(e)	Insecticide resistance management. 10
6.	(a)	Distinguish between each pair below in about 150 words each:— 10×2=20 (i) Hibernation and Diapause. (ii) Acaricide and Nematicide
	(b)	Name four important storage pests of pulses. Describe briefly the bid gy and management of any one of them. 2+4+4=10
	(c)	What are transgents plants? Discuss in brief their merits and democits. 4+6=10
7.	(a)	What are caroarrate insecticides? Discuss in brief their mode of action. 4+6=10
	(b)	Compare n brief diffusion and osmosis. 10
	(c)	Discuss the method of onion seed production. 10
	(d)	Briefly enumerate the major constraints in the production of fruits and vegetables in India. 10
8.	Wri	te short notes on the following in about 150 words
	each	1:— 10×4=40
	(a)	Vernalisation.
	(b)	Propagation of ornamental plants.
	(c)	Biometer and its significance in pest management.
	(d)	Organisation and functions of ICRISAT.

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