Set	No.	:	1	

Question	Booklet No.
Anestion	BOOKIET NO.

RET/16/TEST-B

Horticulture

		NCTrong.			(Sig	nature	of Invigi	ilator)
Roll No. (Write the Serial No. of OMR Day and Date	Answer Sheet			******		*************		
Roll No.	8				T	T]	
(To be	filled up by the	candidate b	y blue/bla	ck ball	point	pen)		

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- 1. Within 10 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, Bring it to the notice of the Superintendent/Invigilators immediately to obtain a fesh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet
- 4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- 5. On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet no. on the Question Booklet.
- 7. Any change in the aforesaid entries is to be verified by the invigitator, otherwise it will be taken as
- 8. This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.
- 9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).
- 11. For rough work, use the inner back pages of the title cover and the blank page at the end of this Booklet.
- 12. Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.
- 13. You are not permitted to leave the Examination Hall until the end of the Test.
- 14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the

Total No. of Printed Pages: 16

ROUGH WORK एक कार्य

Research Entrance Test-2016

No. of Questions: 50

Time : 2 Hours Full Marks : 200

Note: (1) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

- (2) Attempt as many MCQs as you can. Each MCQ carries a (Three) marks. 1 (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
- (3) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.
- 01. Where is the International Rice Research Institute located?
 - (1) Manila

(2) Chicago

(3) Cairo

(4) Cuttack

- 02. Trypsin is basically what?
 - (1) Fatty acid

(2) Sugar

(3) Oligo-nucleotide

(4) Protein

- 03. GMO stands for what?
 - (1) Genetically Modified Organisms
 - (2) Genetically Multipied Organisms
 - (3) Green Modified Organisms
 - (4) Green Modified Orange

04.	Whice in 10	ch international treaty was doct 189, to avoid deleterious effects	ımer s of ı	nted in 1987 and implemented
	ozon	e layer depletion ?	368	
	(1)	Cartagene protocal		
	(2)	Montreal protocol		
	20 80	Geneva protocol		
	(4)	Antartica Environmental prot	ocol	
05 .	The	tissue bearing dead cells is?		
	(1)	Collenchyma	(2)	Parenchyma
	(3)	Xylem	(4)	Phellogen
06.	Sub	-cellular components are sepa	rated	i by means of?
	(1)	Chromatography		
	(2)	Autoradiography		
	(3)	Electrophoresis		
	(4)	Differential and density grad	ient	centrifugation
07.	Wh	ich these is a vertebrate anime	d ?	
	(1)	Prawn	(2)	Snake
	(3)	Mosquito	(4)	Octopus
08.	Wh	ich of these is not a C ₄ plant?		
	(1)	Maize	(2)	Rice
	(3)	Sorghum	(4)	Sugarcane
09	. Cel	theory was first formulated b	у?	
	(1)	- · · · · J Cabrann	(2)	* - NAS * NAS NEW MARKETS
	(3)	hoole	(4)	Ruth Sagar
10	. Ap	ple is a ?	101	False fruit
	(1)		(2)	
	(3)		(4)	Parthenocarpic fruit

11	. Te	ndrometer is used to ma	jor maturit	y of:
	(1)	French bean	. (2)	Garden pea
	(3)	Dolichus bean	(4)	Cow pea
12	Но	rse radish tree is commo	n name of	which vegetable crop:
	(1)	Bread fruit	(2)	Asparagus
	(3)	Drumstick	(4)	Rhubarb
13.	Ed	ible part of Asparagus is	:	
	(1)	Root	(2)	Fruit
	(3)	Tender shoot	(4)	Flower
14.	Sre	e Keerthi is a variety of	:	
	(1)	Greater Yarn	(2)	Lesser Yam
	(3)	White Yam	(4)	Medicinal Yam
15.	Wh	ich of the vegetable is of	ten cross p	ollinated ?
	(1)	Cow pea	(2)	Winged bean
	(3)	Broad bean	(4)	Lima bean
16.	Leu	cinodes orbanilis is the r	najor pest	of:
		Tomato	(2)	Brinjal
	(3)	Potato	(4)	Chilli
17.	AVR	DC is situated at:		
	(1)	Tokyo	(2)	Tasmania
	(3)	Taiwan	(4)	Turkmenistan

18.	Her	maphrodite cultivar of ridge go	ourd	is:
	(1)	Pusa Nasdar	(2)	Satputia
	(3)	CO-1	(4)	Jhinga Torai
19.	Sex	from of Kakrol is :		
	(1)	Monoecious	(2)	Dioecious
	(3)	Andromonoecious	(4)	Gynodioecious
20.	Leel	t is grown for its :	25	
	(1)	Bulb	(2)	Tuber
	(3)	Clove	(4)	Branched stem and leaves
21.	Тур	of inflorescence found in gra	pe is	: .
	(1)	Solitary	(2)	Spadix
23	(3)	Penicel	(4)	Catkins
22.	Gen	etic classification of banana w	as gi	ven by:
	(1)	Burn and Prayug	(2)	Simmond and Shepherd
	(3)	De Candale	(4)	Vavilob
23.	Whi	ch growth regulator is used t	o red	uce period of chilling require-
	mer	nt ?	10	
	(1)	NAA	(2)	IBA
	(3)	Cytokinin	(4)	GA3

2.	t. Y	ellow Heart is	the s	ariety of	f:			
	(1) Loquat			(2)	Litchi		
	(3	Bread frui	t		(4)	Almond		
25	. Ka	anchan a cha	nce s	eedliing	of Aonla	is derived fr	om :	
	(1)				(2)			
	(3)	Banarasi			(4)	Chakaiya		
26	. Gi	rdling is mos	t com	mon in :				
	(1)	Litchi			(2)	Mango		
	(3)	Grape			(4)	Citrus		
27.	Bit	ter principal	prese	nt is citr	us is :			
	(1)	Lycopene			(2)	Isocoumar	in	
	(3)	Eugenal			(4)	Limonin		
28.	Wh	ich variety of	man	go has cl	naracteri	stics turpen	tine flavour :	
	(1)	Chausa			(2)	Langra	mayour .	
	(3)	Dashehari			(4)	Totapari	**	
39.	TSS	or tomato sa	uces	should l	oe:			
	(1)	25%	(2)	28%	(3)	30%	(4) 35%	
30,	Fath	ner of canning	gis:				***	
	(1)	Nicholus Ap	pert		(2)	Needham		
	(3)	Frunk			2022	Bergilius		

31.	Tran	nsvaal Daisy i	s ano	ther name	e of:			
	(1)	Gerbera			(2)	Jasmine		
	(3)	Lily			(4)	Carnation		
32.	The	basic chrome	osome	number	of glad	iolus is :		
	(1)	13	(2)	15	(3)	17	(4)	20
33.	Whi	ch type of ga	rdens	develope	d by Le	Notre ?		
	(1)	French			(2)	Japanese		
	(3)	English			(4)	Italian		
34.	The	Physiological	disor	rder Preha	arvest :	stem break is	s obse	rved in :
	(1)	Gladiolus		20	(2)	Gerbera		
	(3)	Tuberose			(4)	Jasmine		
35.	Cha	lking is a phy	ysiolo	gical diso	rder of	:		
	(1)	Rose			(2)	Gloriosa		
	(3)	Narcissus			(4)	Tulip		
36.	"Pra	ajwal" is varie	ty of :					
	(1)	Tuberose			(2)	Chrysanth	emum	1
	(3)	Gladiolus			(4)	Rose		
3 7.	Wh	ich of followis	ig spe	cies of m	arigold	is tetraploid	?	
	(1)	Tagetes ere	cta		(2)	Tagetes ter	nufoli	a
	(3)	Tagetes luc	ida		(4)	Tagetes po	itula	
38.	'Arl	ka Aradhna' i	s a va	riety of:				
	(1)	Jasminum			(2)	Jasminum		
	(3)	Jasminum	aurici	ılatum	(4)	Jasminum	pube	scens

39. Parent of gladiolus variety Agnirekha, Mayur and Pusa Suhagin is

(1) Kalima

(2) Sylvia

(3) Friendship

(4) American Beauty

40. Which of following orchid commonly called "Lady's Slipper"?

(1) Oncidium

(2) Bulbophyllum

(3) Cymbidium

(4) Paphiopedilum

Short Answer Questions

- Note: Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.
- L. Discuss in brief the different botanical varieties of cultivated lettuce.
- Describe in short the production constraints of brinjal.
- 3. Discuss in brief the physiological disorders of tomato.
- Define hybridization and give some suitable examples of important vegetable varieties develop through it.
- Discuss the significance of hybrid varieties in enhancement of production and export of mango.
- Discuss the role of root-stock in high density planting of fruit crops.
- Discuss the criteria of pruning on different training systems of graps.
- 5. What do you understand by 'Geotropic bending of gladiolus spike'? Write the role of hormone responsible for it and also give remedy of it.
- Write the reason of 'Bent neck in rose'. Mention the name of varieties influenced by this physiological disorder. Give remedial measures of it.
- 10. Write about mobility in the garden. What are the plants to be planted in the garden to create mobility?

Question	No.
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Page for Short Answer

1.14

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण पृष्ठ पर तथा उत्तर-५४ के दोनों पृष्ठों पर केवल नीली-काली बाल-प्याइंट पेर से ही लिखें)

- प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और किंद प्रश्न छूटा नहीं हैं। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- 2. परीक्षा भवन में *लिफाफा रहित प्रवेश-पत्र के अतिरिक्त,* लिखा या सादा कोई भी खुला कावज साव में न लायें।
- उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा।
 कैथल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
- अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखा.
- 5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों कर गावा कर दें। जहाँ-जहाँ आवश्यक हो यहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
- 6. औ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्नपुश्तिका संख्या व सेट संख्या (घदि कोई हो) तथा प्रश्नपुश्तिका पर अनुक्रमांक और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपिरलेखन की अनुमित नहीं है।
- उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचितः साधन का प्रयोग माना जायेगा।
- 8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिए आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गावा करना है।
- प्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृतों को गाड़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- 10. ध्यान दें कि एक बार स्थाही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं, तो संबंधित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर श्रून्य अंक दिये जायेंगे।
- रफ कार्य के लिए प्रश्न-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा उत्तर-पुस्तिका के अंतिम पृष्ठ का प्रयोग करें।
- परीक्षा के उपरान्त केवल औ एम आर उत्तर-पत्र परीक्षा भवन में जमा कर दें।
- परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमित नहीं होगी।
- ग्रें. यदि कोई अध्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/कां, भागी होगा/होगी।