# RET/13/Test B

747

Horticulture

	Question Booklet No.
	(To be filled up by the candidate by blue/black ball-point pen)
No.	
	rite the digits in words)
ial No. c	f OMR Answer Sheet
and Da	te
	(Signature of Invigilator)

#### 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 fresh 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 shall not be provided.
- **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 changes in the aforesaid-entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 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 page 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 University may determine and impose on him/her.

Total No. of Printed Pages: 15

### FOR ROUGH WORK

#### Research Entrance Test - 2013

No. of Questions: 50

Time: 2 Hours Full Marks: 200

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

- (ii) Attempt as many MCQs as you can. Each MCQ carries 3 (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.
- (iii) 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.

Horti	cultu	re	<u> </u>		9. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.				Code No. : <b>7</b> 4
1.	One	Horse Powe	er (HP)	is express	ed in term	of watt	which is	s	,
	(1)	720	(2)	786	(3)	746		(4)	None of these
2.	Nun	nber of segm	ents pr	esent in ir	nsect head	is:			
	(1)	Two	(2)	Four	(3)	Six	*	(4)	Seven
3.	Defi	ciency symp	tom of	sulphur fi	irst appear	s an :			
	(1)	Younger lea	ves		(2)	Older	leaves		
	(3)	Middle leave	es		(4)	None o	of these		
4.	Prot	ein content i	n lentil	is:					
	(1)	18%	(2)	25%	(3)	16%		(4)	20%
5.	Den	nonstration s	howing	g how to d	lo things is	called	?		
	(1)	Method den	nonstra	tion	(2)	Result	demons	tratio	on
	(3)	Training			(4)	Frontl	ne demo	onstr	ation
6.	Dith	ane M-45 is	a:						
	(1)	Bactericide			(2)	Insecti	cide		
	(3)	Fungicide			(4)	Nema	ricide		
7.	Jam	unapari is a	breed o	f:			8		*
	(1)	Cow			(2)	Goat			
	(3)	Buffalo			(4)	None	of the ab	ove	
8.	Sele	ct the correc	t formu	la of urea	:				
	(1)	$H_2NCO_2NH$	I 2		(2)	HNCC	NH		
	(3)	H <sub>2</sub> NCONH	2		(4)	$H_4NC$	$ONH_4$		
9.	The	measure of	central	tendency	is:	*			
	(1)	Median			(2)	Mode	274		
	(3)	Mean			(4)	All of	the abov	e	

experiment?

(1) Gram

(2) Maize

10. On which of the following plant Gregor Mendal perform his classical

(3) Pea

(4) Rice

	**		War and the second seco	
11.	Alstromeria flower is commonly	known as :		
	(1) Calla lily	(2)	Spider lily	
	(3) Peruvian lily	(4)	Kaifer lily	
12.	Oil percentage in Rosa damascena	ie ·		
14.				
	(1) 0.10 (2) 0.08	(3)	0.03 (4) 0.2	
13.	Which of the following flower is l	basipetally ?	?	
	(1) Iris	(2)	Cymbidium	
	(3) Liatris	(4)	Freesia	
14.	"Prajwal" is variety of :			
	(1) Rose	(2)	Chrysanthemum	
109	(3) Gladiolus	107	Tuberose	
	(-)	X=Z		
15.	'A.P.J. Abdul Kalam' is a variety of	of:		
	(1) Gladiolus	(2)	Rose	
	(3) Crossandra	(4)	Antirrhinum	
16.	Nelumbo nucifera commonly know	n as:		
	(1) Indian lotus	(2)	American lotus	
	(3) Caspian lotus	(4)	Chinese lotus	
17.	Which species of Tagetes is grown	for extracti	on of oil?	
	(1) Tagetes lucida	(2)	Tagetes psyilla	
	(3) Tagetes petula	(4)	Tagetes minuta	
18.	Tuberose is native to:			
- <del></del>	(1) South Africa	(2)	Mexico	
	(3) North America	55, 557,0	Mediterranean region	
RET/1	3/Test B/747	(3)		P. T. O.

19.	What is basic chromosome numb	er of gladiolus?	
	$(1) X = 8 \qquad \text{if } (n \epsilon)$	(2) $X = 15$	
	(3) $X = 22$	(4) $X = 28$	
20.	Which breeding method was folland Subhangini?	lowed to develop gladiolus varieties Shob	ha
	(1) Pureline Selection	(2) Hybridization	
	(3) Mutation	(4) Progeny Selection	
21.	Botanical name of Mandarin oran	ge is:	
	(1) Citrus reticulata	(2) Citrus sinensis	
	(3) Citrus aurantifolia	(4) Citrus paradise	
22.	Sathgudi is a variety of :		
	(1) Mandarin	(2) Sweet orange	
	(3) Pummelo	(4) Grapefruit	
23.	Kohir Safed is a cross between :		
	(1) Kohir × Allahabad Safeda	(2) Allahabad Safeda × Kohir	
	(3) Redfleshed × Kohir	(4) L-49 × Kohir	
24.	Chilling requirement of apple is :		
	(1) 500-600 hr below 7°C	(2) 200-400 hr below 7°C	
	(3) 800- 1600 hr below 7°C	(4) 1000-2000 hr below 7°C	
25.	Pusa Arunima is a cross between	:	
	(1) Amrapali × Sensation	(2) Sensation × Amrapali	
	(3) Amrapali × Dashehari	(4) Neelum × Dashehari	
RET/1	3/Test B/747	(4)	

26.	Which pigment is responsible for orange-yellow colour in papaya and orange?								
	(1) Flavonoids	(2)	Xanthophyll						
	(3) Anthocyanins	(4)	Lycopene						
27.	High density planting was first	st established i	in which fruit tree ?						
	(1) Mango	(2)	Guava	20					
	(3) Apple	(4)	Banana	ē					
28.	'Salt tolerant polyembryonic n	nango rootstoo	ck is:	E.					
<b>*</b>	(1) Vellaicolumban	(2)	Olour						
	(3) Kurrukan	(4)	Chandrakaran						
29.	Popular tissue culture variety	of banana is :	and the second second						
83	(1) Alpan	(2)	Basrai Dwarf						
	(3) Harichal	(4)	Grand Nane						
30.	Cleavage polyembryony is for	ınd in :	· ·						
	(1) Grape	(2)	Citrus						
	(3) Apple	(4)	Coconut	7					
31.	Which of the following is C <sub>4</sub> p	lant ?	46						
	(1) Carrot	(2)	Potato						
	(3) Beans	(4)	Amaranthus						
32.	In brinjal cross pollination occ	urs due to :	***						
	(1) Heterostyly	(2)	Self incompatibility						
	(3) Dioecy	(4)	Monoecy	Ħ					
RET/1	3/Test B/747	(5)	*** ***	P. T. O.					

33.	Hybridization is easy in all crops	falling in:	
	(1) Primary gene pool	(2) Secondary gene pool	60
	(3) Tertiary gene pool	(4) Octinary gene pool	
34.	Inhibition of seed germination as	a result of absence of water is termed as:	
	(1) Seed dormancy	(2) Quescence	
	(3) Seed vigour	(4) Vernalization	
35.	Delayed harvesting in radish ma	y cause :	
	(1) Forking	(2) Pithiness	
	(3) Deformed roots	(4) Increased pungency	
36.	Ivy gourd is propagated by:		
	(1) Seed	(2) Root cutting	
	(3) Tuberous roots	(4) Stem cutting	
37.	Wart disease of potato is caused	due to :	
	(1) Fungus	(2) Bacteria	
	(3) Virus	(4) Mycoplasma	
38.	Pusa Deepti is a F <sub>1</sub> hybrid of:		
	(1) Capsicum	(2) Tomato	
	(3) Brinjal	(4) Chilli	
39.	Which aspect of juice is adverse high temperature?	ely affected by the process of pasteurization	n at
	(1) Colour	(2) Taste	
	(3) Storage life	(4) Flavour	
RET/1	3/Test B/747	(6)	

- 40. Pea is packed in:
  - (1) Acid resistant can

(2) Sulphur resistant can

(3) Plain can

(4) Lacquered can

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.

- 1. What is geotropic bending of gladiolus spike. Write the causes and remedies.
- 2. Describe the bent neck in rose.
- Describe the role of male sterility in marigold.
- Differentiate between training and pruning.
- What do you understand by stionic effect.
- 6. Describe the modified atmospheric storage.
- Explain sex forms in cucurbits and their role in pollination, fruit set and seed production.
- 8. What is vegetable forcing? How can this type of gardening be helpful in vegetable production in India?
- 9. Explain the various factors responsible for good setting of jelly.
- Define landscape and describe landscaping.

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## FOR ROUGH WORK