RET/13/Test B

748 Mycology & Plant Pathology

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rite the digits in words)	
(To be filled up by the candidate b	V blue/black hall-noint pen
(Question Booklet No
1	ite the digits in words)

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

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22

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.

3	(Ou.		NUMBER OF STREET	arrows all use
1.	One Horse Power (HP) is expressed in	term of watt wh	nich is
	(1) 720	(2) 786	(3) 746	(4) None of these
2.	Number of segmen	ats present in insect	head is:	
	(1) Two	(2) Four	(3) Six	(4) Seven
3.	Deficiency symptom	m of sulphur first a	ppears an :	
	(1) Younger leaves		(2) Older lea	ves
	(3) Middle leaves		(4) None of t	hese
4.	Protein content in	lentil is:		
	(1) 18%	(2) 25%	(3) 16%	(4) 20%
5.	Demonstration sho	owing how to do thi	ings is called	
	(1) Method demo	nstration	(2) Result de	emonstration
	(3) Training		(4) Frontline	edemonstration
6.	Dithane M-45 is a		ÿ.	
	(1) Bactericide	(2) Insecticide	(3) Fungicid	e (4) Nematicide
7.	Jamunapari is a br	eed of:		49
	(1) Cow	**	(2) Goat	
	(3) Buffalo	ī	(4) None of	the above
8.	Select the correct f	ormula of urea	15	
	(1) H2NCO2NH2		(2) HNCON	
	(3) H2NCONH2	e e	$(4) H_4NCO$	NH_4
9.	The measure of ce	ntral tendency is		
	(1) Median		(2) Mode	
	(3) Mean		(4) All of th	e above
10.	On which of the experiment?	ne following plant	Gregor Meno	dal perform his classical
	(1) Gram	(2) Maize	(3) Pea	(4) Rice
	100 M	1965 36		
RET/	13/Test.B/748	(2)	68

	St.					
11.	Effector protiens in plant pa	thogenic bact	eria is relea		he secretion	
	(1) Type I	15) T II	/WC ->		
	(3) Type III		Type II			
	(b) Type III	(5) Type IV	.". , 1 "e1		
12.	Ridomil-MZ is a fungicide co	onsisting of :				
	(1) Metalaxyl		22	* * . * · · · · · · · · · · · · · · · ·		
6	(2) Mancozeb		w			
	(3) Mancozeb and Zinc oxid	e			*	
	(4) Metalaxyl and Mancozeb	j		o santa)		*
	2					
13.	Citrus greening disease is cau	10.00		is collen		
	(1) Xanthomonas axonopodis p			reservity bross		26
	(2) Candidatus Liberibacter asi	aticus		,	9	
	(3) Xanthomonas campestris po	v. citrumelo		7. T		
	(4) None			10		
14.	Conidiophores of which of th	e fungi rises f	rom thick v	valled foot cell	:	
	(1) Penicillium	(2)	Aspergillu	ıs		19
	(3) Plasmopara	(4)	Both a an	d b		
15.	Moniliformin and Aflatoxin a	re:				
	(1) Mycotoxin	(2)	Phytotoxi	in		
	(3) Pathotoxin	(4)	Vivotoxir	1		9
16.	Genetic relationship among avirulence gene of the pathog		sistant gen	e of host and	virulencel	•
	(1) Additive	(2)	Epitasis			N.
	(3) Complementary	(4)	Duplicate			
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17.	Minute projection near the point of attais known as:	achn	nent to the sterigma of basidiospore
	(1) Promycelium	(2)	Paraphyses
	(3) Clamp connection	(4)	Hilar appendix
18.	Which one of the following genus belor	ngs t	o Ascomycetes group of fungi?
	(1) Sclerotinia sclerotiorum		*2
	(2) Pilobolus sp		
	(3) Albugo candida		
	(4) Sclerotium rolfsii		
19.	Ergot is obtained from:		
10.	(1) Synchytrium endobioticum		
	(2) Pythium aphanidermatum		9
	(3) Cleviceps purpurea		
	(4) Cryphonectria parasitica		
20.	Rust of pea is caused by:		
	(1) Puccinia graminis	80) Uromyces fabae
	(3) Melampsora lini	(4) Puccinia arachidis
21.	RNAi technology is used to:		
	(1) Promote expression of genes		
	(2) Suppress expression of genes		
	(3) Methylation of genes		
3.50	(4) Report a gene		
22.	Soil borne pathogens can be best mana	aged	by:
	(1) Fungicide application		
	(2) Hot water treatment		
	(3) Biological control		
	(4) Mixed cropping		3.

23.	Inc	duced systemic resistance in trigge	ered by	the following:
		Colletotrichum gloeosporioides	•	
	(2)	Pseudomonas fluorescens		· · · · · · · · · · · · · · · · · · ·
	(3)	Pseudomonas solanacearum		" with to t
	(4)	Bacillus thuringiensis		
24.	C1	andamica a salis is last		Wise to
Æ4.		eptomyces scabies is best managed b	ру:	A. Fine
		Application of antibiotics		2.00 2.00\$1.5
		Soil pH management		
		Flooding		$_{1}$ $+^{1}$ γ . Why.
	(4)	Seed treatment		Margarita
25.	Wh	ich one of the following is differer	nt from	the group ! White he
	(1)	Grapevine yellows	(2)	Potato spindle hiber
	(3)	Citrus exocortis	(4)	Coconut cadang-cadang
	•			
26.			Borde	aux mixture the amount of copper
	10. 10	ohate required : 0.5 g	(2)	F •
	48.00	50 g		5 g
	(3)		(4)	500 g
27.	The	following is an example of polycy	clic di	sease:
		Rust of crucifers		Wilt of pigeonpea
	(3)	Sheath blight of rice		Rust of wheat
20	Din.	blicht of and and are described		W .
28.	20	blight of apple and pear was first	•	<i>y</i>
		Anton de Bary	(2)	Adolf Mayer
	(3)	E. F. Smith	(4)	T.J. Burril
29.	RAI	PD markers are :		V _a in . · ·
LJ.			(3)	5
		Co dominant	(2)	Recessive
	(3)	Dominant	(4)	None
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30.	What would expected number of parental types in F2 progenies (64) if the traits are regulated by three QTLs. :				
	(1) One	(2)	Two		
	(3) Four	(4)	Eight		
31.	Ergosterol as principal sterol in cell mer	nbra	ne is distributed in the pathogen :		
	(1) Oomycotina	(2)	Basidiomycotina		
	(3) Xathomonas	(4)	Nematode		
32.	Carbedazim bind to the:				
	(1) Cell wall	(2)	Cell membrane		
	(3) Spindle fiber	(4)	Outer matrix		
33.	Karnal bunt is a:				
	(1) Externally seed borne	(2)	Internally seed borne		
	(3) Both externally and internally	(4)	Contamination		
34.	Myceloid appendages with single ascu-	s is tl	ne characteristic feature of :		
	(1) Uncinula		Erysiphe		
	(3) Spherothica	(4)	Phyllactinia		
35.	Single polar flagella is characteristic fea	ature	s of:		
	(1) Xanthomonas	(2)	Erwinina		
	(3) Agrobacterium	(4)	Clavibetor		
36.	Identify the rust that has migrated in In	ndia	from Africa through wind:		
	(1) Brown rust	(2)	White rust		
	(3) Pink rust	(4)	Yellow rust.		
37.	ITS is commonly used for the identification	ation	of:		
	(1) Bacteria	(2)	Fungi		
	(3) Nematode	(4)	Virus		
	(6)				

38.	Which one the Culture collection cente Government of India:	er au	thorized under BUDAPEST treaty by
	(1) IARI, New Delhi	(2)	IMTECH, Chandigarh
	(3) NBAIM, Mau	(4)	Agharkar Research Institute, Pune
39.	Genetic material of tobacco mosaic viru	ıs is	•
	(1) Single stranded DNA	(2)	Single stranded RNA
	(3) Double stranded DNA		Double stranded RNA
40.	Sterility mosaic of pegion pea is:		40
×	(1) Seed borne	(2)	Mite borne
	(3) Wind borne	(4)	None
16 m	npt any five questions. Write answer in arks. Answer each question on separate p	age,	after writing Question Number.
1.	Discuss the ITS markers for the identific	catio	n of fungi.
2.	Describe about Aflatoxin.		o o
3.	Forecasting of late blight of potato.		
4.	Amendment of organic matter in the so control the phyto-pathogens.	oil br	ing diversity in the rhizosphere and
5.	Seed treatment for seed born diseases.		
6.	Virus-vector relationship.		
7.	Systemic fungicides for control of Oom	ycete	es fungi.
8.	Pathogenesis of obligate parasite.		
9.	Management of phyto- pathogenic nem	atod	e
10.	Management of citrus canker		
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