RET/13/Test B

743 Entomology & Ag. Zoology

	E .	Question Booklet No.
	(To be filled up by the candidate	by blue/black ball-point pen)
Roll No.		
Roll No. (Wr	Ite the digits in words)	
	OMR Answer Sheet	·
	ė	
		(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.
- 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 Questions 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.

		# # # # # # # # # # # # # # # # # # #		¥
1.	One Horse Power ((1) 720	HP) is expressed in (2) 786	(3) 746	(4) None of these
2.	Number of segment	its present in insect (2) Four	head is: (3) Six	(4) Seven
3.	Deficiency sympto (1) Younger leave (3) Middle leaves	m of sulphur first a	ppears an : (2) Older leaves (4) None of these	e
4.	Protein content in (1) 18%	lentil is : (2) 25%	(3) 16%	(4) 20%
5.	Demonstration sho (1) Method demo (3) Training	owing how to do the	ings is called (2) Result demo (4) Frontline de	
6.	Dithane M-45 is a (1) Bactericide	: (2) Insecticide	(3) Fungicide	(4) Nematicide
7.	Jamunapari is a be (1) Cow (3) Buffalo	reed of :	(2) Goat (4) None of the	above
8.	Select the correct (1) $H_2NCO_2NH_2$	formula of urea (2) HNCONH	(3) H ₂ NCONH	₂ (4) H ₄ NCONH ₄
9.	. The measure of control (1) Median (3) Mean	entral tendency is	(2) Mode (4) All of the al	oove
10	. On which of the experiment?			perform his classica
	(1) Gram	(2) Maize	(3) Pea	(4) Rice
RET	Γ/13/Test B/743	(2)	

11.	'Tikka' disease is associated with	ι:	9
	(1) Wheat crop		(2) Tobacco crop
	(3) Groundnut crop		(4) Sugarcane crop
12.	A chromosome which differs eit and female of a species is known	her in as :	n number or in morphology between male
	(1) Autosome		(2) Sex chromosome
*:	(3) Accessory chromosome		(4) Homologous chromosome
13.	Cucurbits in early stage are main	ly dan	naged by :
	(1) Aphids		(2) Jassids
W	(3) Borers		(4) Red pumpkin beetle
14.	Heliothis armigera is :		e a
	(1) Monophagous	*	(2) Oligophagous
	(3) Polyphagous		(4) Saprophyte
15.	Highest milk production dairy bro	eed of	f India is :
٠	(1) Haryana (2) Sahiwal		(3) Ongole (4) Tharparkan
16.	Indian economy is concerned with	ı:	A a
	(1) Capitalistic		(2) Socialistic
	(3) Mixed		(4) Communalistic
17.	Mendel's law of inheritance opera	te dur	ring:
	(1) Mitosis	r.	(2) Meiosis
	(3) Plant gametogenesis		(4) Fertilization
ET/1:	3/Test B/743	(3)	P.T.O.

18.	Largest soil group in	n India is :						
	(1) Deserts soils	(2) Alluvial soils	(3) Black cotton	(4) Pod sols				
10	One molecule of oli	One molecule of glucose on complete oxidation yields :						
19.			(3) 36 ATP	(4) 38 ATP				
	(1) 30 ATP	(2) 32 ATI	(5) 501111					
20.	Principle of Extensi	on Education is:	*					
	(1) Learning by he	aring	(2) Learning by	seeing				
	(3) Learning by rea	ading	(4) Learning by	doing				
	AM CONTRACTOR		ncact tune :					
21.	Who for the first tin	鎩		(4) Lafory				
	(1) Linnaeus	(2) Koenig	(3) Fabricius	(4) Lefory				
22.	The International C	Code of Zoological I	Nomenclature consi	sts:				
	(1) 57 articles	(2) 67 articles	(3) 77 articles	(4) 87 articles				
	W.			a				
23.		have abdominal se		(1) 10 - 10				
	(1) 6 to 7	(2) 8 to 9	(3) 10 to 11	(4) 12 to 13				
24.	The density of pes	t population at whi	ch control measures	s should be applied :				
	(1) GEL	(2) PBL	(3) EIL	(4) ETL				
		N/						
25	. Which of the fly is	28.0 25 8960	979.00 FBD					
	(1) Fruit fly	(2) White fly	(3) Stem fly	(4) Saw fly				
26	. Which of the follo	wing is pest of appl	le:					
	(1) Sylepta lunalis		(2) Nodostoma s	ubcostalum				
63	(3) Cydia hemidox	a	(4) Erisoma lani	gerum				
RET	7/13/Test B/743	¥	4)					

27.	. Which of the following insects are migratory in nature:				
	(1) White grubs		(2) Mealy bugs
	(3) Locusts		(4)	Red pumpkin beetles
28.	Tł	ne basis of antibiosis in corn ag	ainst E	Euro	, pean Corm Borer is :
×	(1)	Nutritional imbalance	ê)		
	(2)	Presence of growth inhibitor	s MBC)A a	nd DIMBOA
	(3)	Presence of toxins			3
	(4)	Nutrition deficiency			5
29.	A	typical 'Hopper burn' in rice is	cause	d by	feeding of :
	(1)	Aphids		(2)	Gundhi bug
191	(3)	Brown plant hopper		(4)	Mites
30.	Ap	helinus mali has been a successi	ful par	asite	in controlling :
,ti	(1)	Tobacco caterpiller		(2)	Apple woolly aphis
	(3)	Maize stem borer		(4)	Sugarcane top borer
31.	Вас	illus thurigiensis is most effectiv	ve at p	H:	
e	(1)	3 to 6		(2)	9 to 10
	(3)	11 to 14		(4)	all of the above
32.	Giv liqu	ing complete coverage to one aid is known as:	hecta	re of	crop by spraying 60 to 250 litres of
	(1)	Low volume spray		(2)	Very low volume spray
	(3)	Medium volume spray		(4)	High volume spray
RET/1	3/Te	st B/743	(5)	30	P.T.O.

33.	If equilibrium population level of a crop injury level, it is a :	damaging insect is above the economic
	(1) Potential pest	(2) Not a pest
	(3) Sporadic pest	(4) Regular pest
34.	In which of the following insect the spir	See .
	(1) Cecidomyid larvae	(2) Chironomid larvae
	(3) Mycetophilid larvae	(4) Psycodid larvae
35.	Johnston's organ is located in most of p	terygote insects in :
	(1) Second antennal segment	(2) Legs
	(3) Wing	(4) Maxilla
36.	Out of the following poisons which we rats:	orks as an anticoagulant for the control of
	(1) Zinc phosphide	(2) Strychmine
	(3) Warfarin	(4) Parathion
37	. Peritrophic membrane is absent in :	
	(1) Orthoptera (2) Isoptera	(3) Coleoptera (4) Hemiptera
38	. Piercing and sucking type of mouth pa	arts are found in:
	(1) Grass hopper (2) House fly	(3) Aphids (4) Beetles
39	. Rodolia cardinalis has been successful in	n controlling :
	(1) Apple wolly aphis	(2) Cottony cushion scale
	(3) Sugarcane shoot borer	(4) Pink boll worm
40	The legless young of a housefly is known	own as:
946.23	(1) Caterpillar (2) Maggot	(3) Nymph (4) Grub
RE	T/13/Test B/743 (6	3)

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. Describe the different kind of mouth parts and antennae found in insects.
- 2. Classify the insecticides based on mode of entry and, mode of action.
- 3. What is Integrated Pest Management and describe the cultural and mechanical tools of pest management.
- **4.** Define the term biological control and describe the augmentation technique of biological control.
- Define the term toxicology and describe the mode of action of pyrethroids & neonicotinoids.
- 6. What is host plant resistance? Describe the various mechanisms of plant resistance.
- 7. Write in brief the nature of damage and management of following insect pests
 - (a) White grubs
 - (b) Helicoverpa armigera on pulses
- **8.** Write short notes on:
 - (a) Peritrophic membrane
 - (b) Cryptonephridial system
- 9. Describe the role of biotechnology in Insect Pest Management.
- 10. Write the common & scientific names of three phytophagous mites and describe the management of phytophagous mites in general.

Roll No.:	

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FOR ROUGH WORK