RET/13/Test B

894

Home Science

w [*]			Question Booklet No.					
77 <u>-</u>	(To	be filled up b	y the candi	idate by	blue/bla	ack ball-point	pen)	ď.
Roll No.						6.0 (**Collection***	P	
Roll No. (V	Vrite the c	ligits in wor	rds)			····		
Serial No.	of OMR A	nswer Shee	et			******************	*****************	~
		***************						***********
		and the second and				(Signatur	e of Invigila	tor)

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.

1.	Most of the land precipitation and evaporation on earth takes place over the :					
	(1) land masses	*				
	(2) oceans and seas					
	(3) poles of the planet	W				
	(4) subtropical latitudes	8				
2.	The downstream portion of a river:					
	(1) generally becomes more sluggish					
	(2) usually has turbulent flows					
	(3) generally is of higher velocity, which is marked by reduced turbulence					
	(4) has lower discharges than do upstream portions					
3.	Which of the following is not a fatty ac	end ?				
	(1) Stearic acid	(2) Palmitic acid				
	(3) Oleic acid	(4) Phenyl acetic acid				
4.	. Which of the following compounds is a	not an antibiotic?				
	(1) Penicillin	(2) Chloramine-T				
	(3) Streptomycin	(4) Chloramphenicol				
5		e moves in a straight line, according to the ne velocity of the particle at a distance x				
	(1) 0	(2) $2 ax \cos x$				
	(3) $4 ax \cos x$	(4) $2 ax \sin x$				

6. If
$$\begin{bmatrix} 2 & 4 \\ 1 & 3 \end{bmatrix} A \begin{bmatrix} 0 & 2 \\ 1 & 3 \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$
, then the matrix A is:

$$(1) \begin{bmatrix} 3 & -4 \\ 3/4 & -1 \end{bmatrix}$$

(2)
$$\begin{bmatrix} -13/4 & 3/2 \\ 5/4 & -1/2 \end{bmatrix}$$

(3)
$$\begin{bmatrix} -17/4 & 3/4 \\ -7/4 & -1/4 \end{bmatrix}$$

$$(4) \begin{bmatrix} 5/4 & 11/4 \\ 3 & -9/4 \end{bmatrix}$$

7. If the error in the measurement of radius of sphere is 0.3%, then the percentage error in the measurement of its volume is:

(2) 0.6%

(4) 0.03%

8. The resistance of series combination of two resistances is S. When they are joined in parallel, the total resistance is P. If S = nP, then the minimum possible value of n is:

$$(1)$$
 3

(2) 4

(4) 0.89

9. Mitochondria are associated with the function of :

(1) cellular digestion

(2) circulation

(3) protein synthesis

(4) cellular respiration

10. In which parts of eyes, rods and cones are present?

(1) Retina

(2) Iris

(3) Cornea

(4) Lens

11.	Attitude scales are ı	ised to measure :	{	
	(1) Judgement	(2) Fact	(3) Ideas	(4) Opinion
12.	PERT was develope	ed by:		
	(1) Chandrashekha	ır	(2) Boozallen F	Hamilton
39	(3) U. R. Rao		(4) Newton	*
13.	Functional leaders	are recognized d	ue to :	
	(1) Their specialize	ed knowledge an	d functions in societ	у
	(2) Their influence	¥	3	
	(3) Traditions			19
	(4) Political system	n		2
14.	Flag method is:			1
	(1) Group contact	method	(2) Individual	contact method
	(3) Mass contact n	nethod	(4) Public con	tact method
15.	Television broadca	ast was started in	India in the year :	
	(1) 1955	(2) 1956	(3) 1959	(4) 1960
16.	Govt. of India laur	nched the Nation	al Food Security Mis	ssion in :
(%)	(1) 2002	(2) 2005	(3) 2007	(4) 1999
17.	Decentralization t	hrough democra	tic bodies was recon	nmended by :
	(1) Dr. B. R. Amb			
	(3) Mohan Mehta	1	(4) Jawahar I	al Nehru
18	. Sevagram attemp	t was started und	der the supervision o	of:
	(1) Rabindranath		(2) Mahatma	9
	(3) Albert Mayer	•	(4) F. L. Bryr	ne
19	. In PRA, what is t	he best method t	o study farming syst	em?
	(1) Resource ma		(2) Venn Dia	
	(3) Sociogram	Visionia (2000) 18	(4) Social ma	apping
RET	7/13/Test B/894		(4)	

	20.	Demonstration showing how to do th				hings :	# 2		3 1
		(1)	Method demon	stra	tion	(2)	Result demon	stration	
		(3)	Training			(4)	Frontline dem	onstration	
	21. The word extension was coined in which cou						untry ?	3	
		(1)	U. K.		*	(2)	U. S. A.		
		(3)	Netherlands			(4)	France		2 (
	22.	Del	liberate sampling	g is a	ilso known a	s:			
		(1)	Purposive samp	oling		(2)	Cluster sampling		
iii)		(3)	Sequential samp	oling	3	(4)	Stratified samp	pling	
	23.	Cel	lulose, hemicellu	ılose	and legnin f	fibres co	ollectively know	vn as:	
		(1)	Carbohydrates			(2)	Fats		
		(3)	Proteins			(4)	Vitamins		
	24.	Wh	ich proteolytic e	nzy	me is able to	digest c	ollegen ?		
		(1)	Rennin	(2)	Pepsin	(3)	Sucrase	(4) Malta	se
	25.	Abnormal formation of red blood ce deficiency causes:				ells due	to prolonged	and severe f	olic acid
		(1)	Megaloblastic A	nae	mia	(2)	Sickle Cell An	aemia	
	ä	(3)	Pernicious Ana	ėmia	ı	(4)	Haemophillia		
	26. Muscle contraction and response of nerves are regulated by mineral element in body fluid are:						elements		
		(1)	Sodium, Potass	ium,	Calcium and	d Magne	esium		
		(2)	Sodium, Potass	ium,	Zinc and Ca	lcium	*		
	28	(3)	Sodium, Phospl				m		
		8 180	Calcium, Zinc,	ži.			2 2 2		82
	27.		ood mixed with	gast		s a sem	i solid mass wh	ich is called	:
		55 STN	Bolus	(2)	Residue				
_			Chyme	(4)	Chylomicro				
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28.	The functional com	ponent	of two im	portant	co-enzymes –	NAD	and NADP is :
	(1) Riboflavin	(2) T	hiamin	(3)	Pyridoxine	(4)	Niacin
29.	Green leafy vegeta	bles, cal	bbage and	lettuce	are good sourc	ce of :	
	(1) Starch			(2)	Omega 3 fatty	acids	
	(3) Triglycerides			(4)	Cholesterol		
30.	The term Tabula ra	sa was	given by :			3 3	
	(1) Frobel	(2) Jo	hn Locke	(3)	Watson	(4)	Rousseau
31.	Developmental sta given by Frued			on "Tru	st vs Mistrust	resem	bles with stage
	(1) Genital stage			(2)	Differentiation	n stage	.
	(3) Oral stage			(4)	Phallic	*	9
32.	Socio-cultural theo	ry was	given by :		8:		~
	(1) Watson	(2) Ba	andura	(3)	Vygotsky	(4)	Kohelberg
33.	Identity crisis occu	rs in :	*				
	(1) Late childhood	68		(2)	Adulthood		
	(3) Adolescence			(4)	Early childhoo	od	
34.	A distribution free among two sets of			ing a h	ypothesis con	cerning	g no difference
	(1) Fisher Irwin te	st		. (2)	McNemer test	t	
	(3) Rank Sum test		20	(4)	Signed Rank t	est	
35.	The Number of chi	ldren is	an examp	le of :			
	(1) Continuous va	riable		(2)	Non continuo	us var	iable
	(3) Extraneous var	iable		(4)	Control group)	
36.	ANOVA is a:				8		
	(1) Multivariate ar	alysis o	of variance				
	(2) Multiple regres	ssion an	alysis				
	(3) Multiple discri	minant	analysis	*		a.	
824	(4) Canonical anal	ysis					
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					*				
(8)	37.	Usually length of c	otton fibre is:		(4) 4 inch				
		(1) 1 inch	(2) 2 inch	(3) 3 inch	(4) 4 11101				
	38.	What kind of fibre	is rayon?		ZO Amimal				
		(1) Natural	(2) Vegetable	(3) Artificial	(4) Animal				
	39.	Assignment of n	Assignment of numbers of basketball players in order to identify them is an						
JJ.		example of :							
		(1) Ordinal scale		(2) Interval sca					
		(2) Patio scale		(4) Nominal sc					
		(0) 2	notic cleaning agen	t and grease remov	er for very dirty greasy				
	40.	cotton articles is	Helic cleaning was						
				(2) Lissopal N					
		(1) Sodium bi ca		(4) Benzene	a a				
		(3) Potassium p	ermagnate		e Fach auestion carries				
	Atte	mpt any five ques	tions. Write answe	er in 150-200 word to nage after writir	s. Each question carries 1g Question Number.				
	16 m	ıarks. Answer each	question on separa	te page, a, oct	ng Question Number.				
	1.	Explain Edgor I	Dale's "Cone of expe	rience".					
		xuz i - tha mala a	f indigenous comm	unication chennels i	n rural upliftment.				
	2	. Write the role o	1	mosal on any topic	of your choice.				
	3	 Make a brief sk 	etch of research pro	posal on any topic o	2 Diagree				
	4	. Why research is	s necessary in the fi	eld of Home Science	Discuss.				
		- Ct remed	ites for eradicating	malnutrition from t	he country.				
	,	5. Suggest remed	1.00	hout Mutrigenomic	5.				
		6. What is nucleu	s? Write in detail a	bout Nutrigenomic					
	50	7. Discuss foods	standards.		8 887777 8				
		• Evolain Progra	amme Evaluation a	nd Review Techniqu	ie. (PERT).				
			ch and write its obj						
	a *	10. Write the role	of computer in reso	earch.	P. T. O.				

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Q. No. :