

Set No.: 1

Ouestion Booklet No.

RET/16/TEST-B	894	Home Science (Science	nce)
(To be filled up by	the candidate by b	lue/black ball point pen)	
Roll No.			
Roll No. (Write the digits in w	ords)		••••••
Serial No. of OMR Answer Sh	eet		
Day and Date			
		(Signature of In	vigilator)

INSTRUCTIONS TO CANDIDATES

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

- 1. Within 30 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 shall not be provided.
- 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 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 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 University may determine and impose on him/her.

Total No. of Printed Pages: 20



ROUGH WORK

रफ़ कार्य

Research Entrance Test-2016

No. of Questions: 50

प्रश्नों की संख्या: 50

Time: 2 Hours Full Marks: 200

समय : २ घण्टे पूर्णाङ्क : २००

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

इस प्रश्न पुस्तिका में 40 वस्तुनिष्ट व 10 लघु उत्तरीय प्रश्न हैं।

- (2) 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.
 - अधिकाधिक वस्तुनिष्ठ प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक वस्तुनिष्ठ प्रश्न 3 (तीन) अंकों का है। प्रत्येक गलत उत्तर के लिए 1 (एक) अंक काटा जायेगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा। यदि वस्तुनिष्ठ प्रश्नों के एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।
- (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.

केवल **5** (पाँच) लघुउत्तरीय प्रश्नों के उत्तर दें। प्रत्येक प्रश्न **16** (सोलह) अंकों का है तथा उनका उत्तर **150-200** शब्दों के बीच होना चाहिए। इसके लिए इस पुस्तिका में लगे हुए सादे **5** (पाँच) पृष्ठों का ही उपयोग आवश्यक है। प्रत्येक प्रश्न का उत्तर एक नए पृष्ठ से, प्रश्न संख्या लिखकर शुरू करें।

01. Which is not true for reactions by the S_N^2 mechanism?

- (1) proceeds through a backside attack and results in inversion
- (2) tends to proceed with weak nucleophiles solvents like CH₃OH, H₂O, CH₃CH₂OH.
- (3) rate of reaction proceeds from primary (fastest) > secondary >> tertiary (slowest)
- (4) occurs in one step

02. Which is the main product of the following reaction?

(1) NC^{NC}

(2) NC C

(3) $_{\text{MeO}}$ $_{\text{C}}$

(4) CI

03. Which of the following conditions is necessary for a reaction to be spontaneous?

(1) $\Delta S_{sur} > 0$

- (2) $\Delta S_{sys} > 0$
- (3) $\Delta S_{sur} + \Delta S_{sys} > 0$
- (4) $\Delta S_{sur} + \Delta S_{svs} < 0$

04. Dead organs are generally stored in formalin. Formalin is:

- (1) aqueous formaldehyde
- (2) aqueous ferrous sulphate
- (3) aqueous formic acid
- (4) aqueous ferric alum

- **05.** Regarding "carbon credits", which one of the following statement is **not** correct:
 - (1) The carbon credit system was ratified in conjunction with the Kyoto Protocol.
 - (2) Carbon credits are awarded to countires or groups that have reduced greenhouse gases below their emission quota.
 - (3) The goal of the carbon credit system is to limit the increase of carbon dioxide emission.
 - (4) Carbon credits are traded at a price fixed from time to time by the United Nations Environment Programme.
- **06.** Ball bearings are used in bicycles, cars, etc., because:
 - (1) the actual area of contact between the wheel and axle is increased.
 - (2) the effective area of contact between the wheel and axle is increased
 - (3) the effective area of contact between the wheel and axle is reduced
 - (4) the actual area of contact between the wheel and axle is reduced.
- 07. During respiration, energy is released. It is stored in the form of :
 - (1) ADP
- (2) ATP
- (3) NADP
- (4) APP
- 08. Which of the following is known as Royal disease:
 - (1) Sickle cell anemia
- (2) Haemophilia
- (3) Alzheimers disease
- (4) Colour blindness
- 09. The xylem in plants is responsible for:
 - (1) transport of water
- (2) transport of food
- (3) transport of oxygen
- (4) transport of amino acids

10.	Two wires, of the same material, have their lengths in the ratio 1:2 and their diameters in the ratio 2:1. If both are stretched separately by equal weights, the ratio of increase in their lengths, $L_1:L_2$ would be:									
	(1)	1:2	(2)	2:1	(3)	1:8	(4) 8:1			
11.	The functional component of two important co-enzymes-NAD at NADP is :									
	(1)	Riboflavin			(2)	Niacin				
	(3)	Thiamine			(4)	Pyridoxine				
12.	In A	BC's of Journ	nalisn	n 'A' stand	s for :					
	(1)	Awakening			(2)	Attraction				
	(3)	AND			(4)	Access				
13.	Res	Research design of a study should not include:								
	(1)	Findings			(2)	Objectives				
	(3)	Hypothesis			(4)	Blue print of	f research			
14.	The	he main cause for ciliac disease is :								
	(1)	Defect in mi	crovil	li	(2)	Defect in He	patic cell.			
	(3)	Defect in Ga	stric	mucosa	(4)	Defect in 2-o	cells of pancreas			
15.	Puti	refaction of m	eat is	the result	t of exc	essive break	down of :			
	(1)	Carbohydrat	tes		(2)	Fats				
	(3)	Proteins			(4)	Calcium				
16.	In montessory system of pre-school education teaching, the children are learnt:									
	(1)	First writing	then	reading						
	(2)	First reading	g the	n writing						
	(3)	Only readin	g							
	(4)	Both reading	9E/48	writing						
	£ 1									

17.	Thu	Thurstone and Lickert are associated with measurement of :							
	(1)	Intellegence			(2)	Attitude			
	(3)	Values			(4)	Personality			
18.	Wor	nen Empower	ment	t "vear"	was first	recognized in	the '	vear:	
	(1)	2001	(2)	2002		1999	(4)		
19.	The	The enzyme which converts inactive trypsinogen into active tr							gen
	(1)	Enterokinas	e		(2)	Galactase			
	(3)	Rennin			(4)	Insulin			
20.	Trai	ining and visit system of extension was first introduced in :							
	(1)	Turkey			(2)	India			
	(3)	Israel			(4)	Iraq			
21.	The	The first page of the research report is:							
	(1)	Acknowledge	emen	t	(2)	Index page			
	(3)	Title page			(4)	Preface page	:		
22.		hich of the following adopters have more openion leadership in the							the
	(1)	Innovator			(2)	Early adopte	rs		
	(3)	Early majort	iy		(4)	Late majority	y		

894/Home Science (Science)

23.	16-F	16-PF is used to measure which of the following:							
	(1)	Creativity	(2)	Interest					
	(3)	Personality	(4)	Stress					
24.	Whi	ch stage of life is considered a	ıs En	npty nest'?					
	(1)	Early adolescence	(2)	Late adolescence					
	(3)	Early adulthood	(4)	Late adulthood					
25.	Gag	gne is associated with which of	f the	following :					
	(1)	(1) Hierarchical order of learning							
	(2)	Theories of learning							
	(3)	Evaluation of learning							
	(4)	Management of learning							
06	117-4								
20.		ting agents are used mainly:							
	(1)	For washing fabric							
	(2)	For removing moisture from	fabrio						
	(3)	For removing metallic ion							
	(4)	To reduce the surface tension	n of t	he aqucous solution					

27 .	Whi	nich one is important characteristic of pigment?									
	(1)	Pigment do not have affinity towards Textile fibers.									
	(2)	Pigments are also dyes.									
	(3)	Pigments enter in the fiber of	Pigments enter in the fiber core								
	(4)	Pigments are water soluble									
28	In fi	rst five vear plan, non-formal e	duca	tion of rural youth programme							
20.		ered age group of:	uuca	don of fural youth programme							
		15 - 25 years	(2)	15 - 30 years							
	(3)	15 - 35 years	(4)	***************************************							
29.	Auti	sm is a :									
	(1)	Developmental disorder	(2)	Social disorder							
	(3)	Emotional disorder	(4)	Disorder related to play							
30.	Whi	ch proteolytic enzyme is able	to di	gest collegen is ?							
	(1)	Galactase	(2)	Pepsin							
	(3)	Rennin	(4)	Maltase							
31.	Klein	nfelter Syndrome is :									
	(1)	Trisomy 21	(2)	XXY							
	(3)	XO	(4)	XYY							

9

894/Home Science (Science)

32.	Scui	urvey is a disorder of deficiency of :								
	{1}	Vitamin B ₁			(2)	Vitamin D				
	(3)	Vitamin C			(4)	Vitamin K				
33.	Vygo	otsky's theory	is als	so known as	3 :					
	(1)	Psychoanaly	tical t	theory						
	(2)	Socio-cultur	al the	ory						
	(3)	Cognitive de	velopi	ment theory	,					
	(4)	Social behav	iour t	heory						
34.	NEE	M stands for	:							
	(1)	National Extension Education movement								
	(2)	National Elementary Education movement								
	(3)	National Extension Education mission								
	(4)	National Ele	menta	ary Education	on m	ission				
35.	Enq	uiry learning	is cor	nducive for	devel	oped of:				
	(1)	Imagination			(2)	Creativity				
	(3)	Cognitive Sk	ills		(4)	Memory				
36.	An I	ndicator of B	ody fa	it content is	:					
	((1)	MRI	(2)	ВМІ	(3)	BMR	(4)	NMR		

37.	DWCRA programme was started in the year:									
	(1)	1981	(2)	1979	(3)	1982	(4)	1980		
38.	Communication is the process by which messages are transferred from a source to a receiver according to:									
	(1) Ban and Hawkins (2) Dhama and Bhatnagar							nagar		
	(3)	Adivi Reddy			(4)	Rogers and S				
39.	Which of the following is not a defence mechanism?									
	(1)	Association			(2)	Regression				
	(3)	Compensatio	n		(4)	Sublimation				
40.	When capillaries in glomeruli are inflamed it is called:									
	(1)	Glomerulone	phriti	s	(2)	Pyelonephriti	S			
	(3)	Cystic Kidney	у		(4)	Nephrosclero	sis			

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.

- 01. Sampling Techniques.
- 02. Mal nutrition causes and prevention.
- 03. Explain developmental task.
- **04.** Importance of study of epidemiology.
- **05.** Importance of thinking and learning.
- **06.** Role of Textile Industry.
- 07. Importance of study of Home Science and its areas.
- **08.** Need of self Employment.
- 09. Qualitative Research.
- 10. Origen of Extension Education.

894/Home Science (Science)

RET/16/TEST-B

ROUGH WORK

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ROUGH WORK

रफ़ कार्य

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली-काली बाल-प्वाइंट पेन से ही लिखें)

- प्रश्न पुस्तिका मिलने के 30 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ट मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
- परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ 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।
 केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
- अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
- 5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
- 6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्नपुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्नपुस्तिका पर अनुक्रमांक और ओ० एम० आर० पत्र संख्या की प्रविष्टियों में उपिरलेखन की अनुमित नहीं है।
- 7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित 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 गाढ़ा करना है।
- प्रत्येक प्रश्न के उत्तर के लिए केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
- 10. ध्यान दें कि एक बार स्याही 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 शून्य अंक दिये जायेंगे।
- रफ कार्य के लिए प्रश्न-पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा उत्तर-पुस्तिका के अंतिम पृष्ठ का प्रयोग करें।
- 12. परीक्षा के उपरान्त केवल ओ एम आर उत्तर-पत्र परीक्षा भवन में जमा कर दें।
- परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
- 14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, भागी होगा/होगी।