RET/15/Test B

Animal Husbandry & Dairying

(3)	Question Booklet No
y the candidate	by blue/black ball-point pen)

/black ball-point pen) (To be filled up by Roll No. Roll No. (Write the digits in words) Serial No. of OMR Answer Sheet Day and Date (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
- 11. For rough work, use the inner back page of the title cover and the blank page at the end
- 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

Total No. of Printed Pages: 15

FOR ROUGH WORK

Research Entrance Test - 2014

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.	"Fluid mosaic mode	el" relates to the	structure	of:	2	
	(1) Cell wall	0 X:	(2)	Protoplasm		
	(3) Plasma membra	ane	(4)	Nucleic acid		
2.	Spongy tissue of ma	ango is a :				
	(1) Bacterial diseas	-	(2)	Physiological c	lisease	
	(3) Viral disease		(4)	Fungal disease		8
3.	A purpose of initial	ting a conscious	s and purp	ooseful action is	called:	
	(1) Education	(2) Motivation	n (3)	Action	(4) Coordin	ation
4.	Yellow colour of eg	g is due to :				
	(1) Carotene		yll (3)	Anthocyanin	(4) Vitamin	В
5.	During prophase-I	of meiosis cross	sing over	occurs at :		
	(1) Zygotene	(2) Pachytene		Diplotene	(4) Diakines	sis
6	In which crop the u	100h 30 10 11 11 10 10 4 10 10 10 10 10 10 10 10 10 10 10 10 10			will be most u	seful ?
6.				Rice	(4) Sugarcai	
	(1) Maize	(2) Potato	(3)	Ricc	(1) 00.80	
7.	Lycopene pigment	is present in:				
	(1) Beetroot	(2) Tomato	(3)	Radish	(4) Chilli	
8.	Ooze test is done to	detect :				
0.	(1) Bacterial disease		(2)	Fungal disease		
	(3) Viral disease		(4)	All of these		
						10
9.	Number of chromo	osome in wheat	endosper	m is:		
	(1) 21	(2) 42	(3)	63	(4) 14	
	Acridine orange is	sused for induct	ing:			
10.	Acridine orange	raion	(2)	Mutagenesis		
	(1) DNA denatur	ntion	(4)	Bacterial trans	duction	
	(1) DNA (3) Chiasma form					
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11.	The unit for measu	ring Viscosity of Mi	lk is:	
	(1) Dyne	(2) mho	(3) Poise	(4) Volts
12.	The PFA standards	s for Toned milk is:		
	(1) 3.0% Fat & 9.0°	% SNF	(2) 3.0% Fat & 8	8.5% SNF
	(3) 1.5% Fat & 8.5°	% SNF	(4) 1.5% Fat &	9.0% SNF
13.	Emulsifier improve	e the:		
	(1) Melting of Ice	Cream	(2) Whipping o	quality of Ice Cream
	(3) Sogginess of Ic	e Cream	(3) Sandiness of	
4.4	0.			
14.	Starter species com	monly used in milk	industry is:	
	(1) Staphylococcus	s	(2) Streptococc	us
	(3) Lactobacillus		(4) Leuconosto	c
15.	Mozzarella Cheese	is preferably made	from	
	Wiozzarena Creese	is preferably made	non.	
	(1) Cow milk	(2) Buffalo milk	(3) Goal Milk	(4) Camel Milk
16.	Function of active s	starter in the manuf	acture of a fermen	ted milk products is:
	(1) Acid Production	on.		
	(2) Desired charac	teristics flavor prod	uction.	
		rowth of undesirab		5.
8	(4) All of these.		u u	
17.	Which one of the fo	ollowing is a cross br	eed cow:	
	(1) Jersey	(2) Brown Swiss	(3) Karan Swiss	(4) Holstein
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18.	The milk productio	n growth in Inc	dia is hove	ering around:	
	(1) 1-2 % per year		(2)	2-3 % per year	
	(3) 4-5 % per year		(4)	7-8 % per year	
19.	The Lecithin Conce	ntration of Pho	spholipid	fractions in Buff	falo milk is:
	(1) 4.63	(2) 6.69	(3)	7.29	(4) 9.12
20.	UHT is the process	of:			
	(1) Filtration		(2)	Clarification	
	(3) Homogenizatio	$\mathbf{n}^{(i)}$	(4)	Pasteurization	
21.	The first few strips	of milk from ea	ich quarte	r should not be	mixed with the res
	of the milk as it con	tains:			
	(1) More fat				
	(2) More bacteria				
	(3) Should be used	for mastitis de	tection		
	(4) All of these				
22.	Goat meat is called	as:			
	(1) Mutton	· / · · ·	(2)	Chevon	
	(3) Pork		(4)	Cara beef	
22	India ranks	in cattle popul	lation.		
23.	(1) 1st	(2) 2nd	(3)	3rd	(4) 5th
	Pashmina is obtain	ed from:			
24	oat		(2)	Sannen goat	
	(1) Chegugoat (3) Jamurapari 8	ont	(4)	Merino Sheep	
			(4)		
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25.	Colour of Haryana	breed of cattle is:			
	(1) White or light (grey	(2)	Black or light gr	rey
	(3) Red		(4)	Brown	
26.	T and D is a breed	ofdevelo	ped at	Birsa Agricultu	ral University,
	Ranchi.				
	(1) Cattle	(2) Sheep	(3)	Pig	(4) Goat
27.	Broiler is a bird (ch	i cken) of about one	e kg (tv	wo pounds) of w	reight in about:
	(1) 2-4 weeks	(2) 4-6 weeks	(3)	7-8 weeks	(4) 8-10 weeks
28.	Filled Milk is same of the following son	e as Recombined M urce:	ilk, exc	cept that the fat	is derived from one
	(1) Animal	(2) Vegetable	(3)	Both	(4) No Fat
29.	Ovulation takes in	cow during:			
	(1) Proestrus		(2)	Oestrus	
	(3) Metoestrus		(4)	Dioestrus	
30.	Which method is u	sed for bloodless ca	astratio	on:	
	(1) Reuff's method	!	(2)	Alternative met	thod
	(3) Both		(4)	Burdizzo metho	od
31.	The percentage of f	at in butter oil is:			
	(1) 90.00 - 92.00		(2)	92.50 - 95.75	
	(3) 99.50 - 99.80		(4)	95.25 - 97.50	~
32.	The Casein content	of cow milk is:			
	(1) 2.5 %	(2) 3.0%	(3)	3.2 %	(4)3.5%
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33.	Which one of the fo	llowing is disinfect	tant:	
	(1) Chlorine		(2) Chloroform	
	(3) Potassium Nitr	ate	(4) Boric Acid	
34.	The highest milk pr	oducing country in	n the world is:	
	(1) U.K.	(2) Germany	(3) USA (4) India	
35.	'Very Good' Grade	milk should contain	inthe SPC/ml is:	
	(1) Not exceeding	1.0 Lacs	(2) Not exceeding 2.0 Lacs	
	(3) Not exceeding		(4) Not exceeding 5.0 Lacs	
	W 70			
36.	As per BIS Specific	ation, total milk sol	lids percentage in Condensed milk is:	
	(1) 27	(2) 29	(3) 31 (4) 33	
37.	Pasteurization of m	ilk was first done b	by:	
	(1) Louis Pasteur i	n 1860.	(2) Dr. Soxhlet in 1886.	
	(3) Nicholas Appe	rt in 1809.	(4) Gail Borden in 1801.	
38.	Murrah breed of B	uffaloes has origina	ated from:	
	(1) Pakistan	(2) Thailand	(3) Bangladesh (4) India	
39.		ations, the minimu	um weight of one litre of Ice cream shoul	ıd
	be:		40) 405	
	(1) 425 gm	(2) 525 gm	(3) 575 gm (4) 625 gm	
40.	Least variable con	stituents of milk is:	:	
	(1) Casein	(2) Fat	(3) Lactose (4) Minerals	
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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. Methods of selection in livestock
- 2. Methods of milking
- 3. A Dairy has 1000 kg of cream testing 50% fat, How much skim milk testing 0.1% fat required to obtain cream testing 40% fat?
- 4. Define breeds & give five names of Indian cow & buffalo breeds.
- **5.** Classify indigenous milk products and give the name of their western counterparts.
- **6.** What is total quality management (TQM)?
- 7. Describe briefly the packaging techniques for Dairy Industry.
- 8. Differentiate the overrun of butter & Ice-cream.
- 9. Give the flow diagram for the manufacture of Cheddar Cheese.
- 10. What are Probiotics & Prebiotics?

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