

**RET/13/Test B****742****Animal Husbandry & Dairying**

Question Booklet No. ....

(To be filled up by the candidate by **blue/black ball-point pen**)

Roll No.

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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 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. One Horse Power (HP) is expressed in term of watt which is .....  
(1) 720                      (2) 786                      (3) 746                      (4) None of these
2. Number of segments present in insect head is :  
(1) Two                      (2) Four                      (3) Six                      (4) Seven
3. Deficiency symptom of sulphur first appears an :  
(1) Younger leaves                      (2) Older leaves  
(3) Middle leaves                      (4) None of these
4. Protein content in lentil is :  
(1) 18%                      (2) 25%                      (3) 16%                      (4) 20%
5. Demonstration showing how to do things is called  
(1) Method demonstration                      (2) Result demonstration  
(3) Training                      (4) Frontline demonstration
6. Dithane M-45 is a :  
(1) Bactericide                      (2) Insecticide                      (3) Fungicide                      (4) Nematicide
7. Jamunapari is a breed of :  
(1) Cow                      (2) Goat  
(3) Buffalo                      (4) None of the above
8. Select the correct formula of urea  
(1)  $H_2NCO_2NH_2$                       (2)  $HNCONH$                       (3)  $H_2NCONH_2$                       (4)  $H_4NCONH_4$
9. The measure of central tendency is  
(1) Median                      (2) Mode  
(3) Mean                      (4) All of the above
10. On which of the following plant Gregor Mendal perform his classical experiment ?  
(1) Gram                      (2) Maize                      (3) Pea                      (4) Rice

11. The unit for measuring Viscosity of Milk is :
- (1) Dyne (2) Mho  
(3) Centipoise (4) volts
12. The PFA standards for Recombined milk is :
- (1) 4.0% Fat & 9.0% SNF (2) 4.0% Fat & 8.5% SNF  
(3) 3.5% Fat & 8.5% SNF (4) 3.0% Fat & 8.5% SNF
13. Emulsifier improve the :
- (1) Melting of Ice Cream (2) Whipping quality of Ice Cream  
(3) Sogginess of Ice Cream (4) Sandiness of Ice Cream
14. Which of the following is used as colouring matter in Butter ?
- (1) Xanthophyll (2) Annatto  
(3) Chlorophyll (4) Riboflavin
15. Cheddar Cheese is preferably made from :
- (1) Cow milk (2) Buffalo milk  
(3) Goat Milk (4) Camel Milk
16. A constituent found in blood but not in milk is :
- (1) Globulin (2) Casein  
(3) Glucose (4) Minerals
17. Which one of the following is a cross breed cow:
- (1) Jersey (2) Brown Swiss  
(3) Karan Swiss (4) Holstein

18. The milk production growth in India is hovering around:
- (1) 1-2 % per year (2) 2-3 % per year  
(3) 4-5 % per year (4) 7-8 % per year
19. When milk received at the milk plant it should be at:
- (1)  $< 05^{\circ} \text{C}$  (2)  $< 10^{\circ} \text{C}$   
(3)  $> 10^{\circ} \text{C}$  (4)  $> 15^{\circ} \text{C}$
20. Vaccination is the process of :
- (1) Filtration (2) Clarification  
(3) Homogenization (4) Pasteurization
21. Zoological name of Indian zebu cattle is :
- (1) *Bos taurus* (2) *Bos indicus*  
(3) *Bos bubalis* (4) *Bos cervidae*
22. "Avivastra" is the new breed of :
- (1) Sheep (2) Goat (3) Cattle (4) Poultry
23. Incubation period of Quail egg is :
- (1) 17 days (2) 21 days (3) 28 days (4) 36 days
24. 'Barbari' is the breed of :
- (1) Sheep (2) goat (3) Pig (4) Poultry
25. 'Ranikhet' is a disease of :
- (1) Pig (2) Sheep (3) Cattle (4) Poultry

26. 'Black Quarter Disease' is caused by :

- (1) Clostridium tetani
- (2) Clostridium botulinum
- (3) Clostridium perfringens
- (4) Clostridium chauvei

27. Which one has the highest Biological Value :

- (1) Meat
- (2) Milk
- (3) Egg
- (4) Grains

28. Filled Milk is same as Recombined Milk, except that the fat is derived from one of the following source :

- (1) Animal
- (2) Vegetable
- (3) Both
- (4) No Fat

29. Ovulation takes in cow during :

- (1) Proestrus
- (2) Oestrus
- (3) Metoestrus
- (4) Dioestrus

30. Highest volume of semen in one ejaculate is secreted by :

- (1) Stallion
- (2) Bull
- (3) Boar
- (4) Ram

31. The percentage of fat 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.** Predominant amino acid in milk is :
- (1) Lysine (2) Valine  
(3) Cystine (4) Lysine and Valine both
- 33.** Development of Orange colour in milk treated with nitric acid confirms the adulteration of :
- (1) Formalin (2) Cane sugar  
(3) Skim Milk Powder (4) NaCl
- 34.** The first few strips of milk from each quarter should not be mixed with the rest of the milk as it contains:
- (1) More fat  
(2) More bacteria  
(3) Should be used for mastitis detection  
(4) All of these
- 35.** Highest percentage fat and protein is found in the Colostrum of:
- (1) Cow (2) Goat  
(3) Sow (4) Ewe
- 36.** Presence of antibiotics and supha residues in milk is tested by:
- (1) Baudin Test (2) Iodine Test  
(3) Hansa Test (4) Delvotest Kit
- 37.** In poultry eggs too large air cell may be possibly due to:
- (1) Variable room temperature (2) High Humidity  
(3) Low Humidity (4) All of these

38. Daily maintenance requirement of DCP of a dairy cow weighing 400 kilogram of body weight is:

- (1) 0.25 kg (2) 0.50 kg  
(3) 0.75 kg (4) 1.00 kg

39. Starter species commonly used in milk industry is:

- (1) Staphylococcus (2) Streptococcus  
(3) Lactobacillus (4) Leconostoc

40. Least variable constituents of milk is:

- (1) Casein (2) Fat  
(3) lactose (4) Minerals

*Attempt any five questions. Write answer in 150-200 words. Each questions carries 16 marks. Answer each question on separate page, after writing Question Number.*

1. What is Functional Food ?
2. What are Probiotics & Symbiotic foods ?
3. Define Milk & Give average composition.
4. Define Breeds & give five names of Indian cow & buffalo breeds.
5. Classify indigenous Milk products.
6. What is HACCP ?
7. Explain briefly Ruman Flora.
8. Differentiate Cheese & Paneer.
9. Mass selection.
10. What is Tympanitis & Pica ?

**Roll No. :** .....

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**Q. No. :**

Roll No. : .....

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Q. No. :

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**Q. No. :**

**FOR ROUGH WORK**

