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Candidate should write his/her Roll No. here.

Total No. of Questions : 03

No. of Printed Pages : 04

M-SFS-I-2017 (19)
ANIMAL HUSBANDRY AND VETERINARY SCIENCES
(Optional Subject)
First Paper

Time : 3 Hours]

[Total Marks : 200

Instructions to the candidates :

1. This question paper consists of three questions and all questions are compulsory.
2. Marks for each question have been indicated on the right hand margin.
3. There is no internal choice in Question No. 1, remaining questions carry internal choice.
4. The first question is of very short-answer type consisting of 15 compulsory questions. Each one is to be answered in one or two lines. Question No. 2 is short answer type, word limit is 100. Question No. 3 is long answer/Essay type, word limit is 300.
5. Wherever word limit has been given, it must be followed to.
6. Question should be answered exactly in the order same as mentioned in the question paper. Answer to the various parts of the same question should be written together compulsorily and no answer of the other question should be inserted between them.



1. Write the answer of all the very short questions in **one or two** lines. Each answer should be limited upto **15** words. **15 × 4 = 60**

- (A) What are the feed additives ?
- (B) What is the role of Vitamin 'C' as an antioxidant ?
- (C) What are the technologies included under the reproductive field ?
- (D) Explain the mating system in brief and give its types.
- (E) Give information about the remedial measures of livestock improvement.
- (F) Narrate the points considered under the Management of Laboratory Animals.
- (G) Name the types of systems adopted for keeping the poultry.
- (H) What is recombined milk ?
- (I) What are the factors affecting the milk yield ?
- (J) What is difference between *in vitro* & *in vivo* ?
- (K) What points to be covered under antimortem procedure ?
- (L) What do you mean by syndrome ?
- (M) What is toxins & types of toxins ?
- (N) Define 'TRYSEM' and it's main objectives.
- (O) What are the rich sources of folic acid ?

2. Write the answer of any 10 questions. Each answer should be limited upto 100 words. (Solve any 10 questions) $10 \times 8 = 80$

- (A) Give information about types of selection.
- (B) What are the factors affecting intensity of selection and estimation of heritability ?
- (C) Give brief information about economic dairy farming.
- (D) Discuss in brief about Wild and Zoo Animals Management.
- (E) How the cleaning and sanitization of major equipments in dairy units is done ?
- (F) Define Fertility and Hatchability. Mention the factors affecting them.
- (G) How the collection of milk and it's procurement is done from rural areas ?
- (H) What practices are adopted in the lairage before slaughtering the animals ?
- (I) Name the important by-products from slaughter house with their economic uses.
- (J) What are the sources of air pollution and sanitary measures adopted in animal houses ?
- (K) Define roughages. Describe major groups of roughages.
- (L) Describe the various methods of clean milk production.
- (M) Write classification of Fowls & factors affecting egg size.



3. Write the answer of any 3 questions. Each answer should be limited upto 300 words. $3 \times 20 = 60$

- (A) Write a brief note on general functions and deficiency conditions of major mineral elements of food.
 - (B) What are different units to be constructed in the establishment of new dairy farm ?
 - (C) Describe in detail about management of Broilers.
 - (D) Write the participating role of rural women in agriculture. Mention the principles of developing techniques and strategies under empowerment programme for them.
 - (E) Describe in details the requirements of housing of the poultry. Write note on poultry house equipments.
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