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Candidate should write his/her Roll No. here.

Total No. of Questions : 03

No. of Printed Pages : 04

**M-SFS-II-2017 (19)**  
**ANIMAL HUSBANDRY AND VETERINARY SCIENCES**  
**(Optional Subject)**  
**Second 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.

M-SFS-II-2017 (19)

P.T.O.



1. Give answer of the following questions in **one or two** lines :

**15 × 4 = 60**

- (A) Define Subpoena.
- (B) What is Puberty ?
- (C) What is Free Martin ?
- (D) Define Adaptation.
- (E) What is Polyspermy ?
- (F) What is macula densa ?
- (G) Define Yolk gall.
- (H) Define Heel effect.
- (I) What are Pheromones ?
- (J) Define Pandemic.
- (K) Define Super Ovulation
- (L) What is wool sorter's disease ?
- (M) What is Galactopoiesis ?
- (N) What are transgenic animals ?
- (O) What is meat meal ?

2. Give answers of the following questions. Each answer should be limited to 100 words. (Attempt any ten questions.) 10 × 8 = 80

- (A) Write in brief about Blood Tests Barrier.
- (B) What is placenta ? Give the detail classification of placenta with example for each type.
- (C) Describe in brief clinical signs and treatment of umbilical hernia.
- (D) Describe in brief Tenets of Halsted.
- (E) Write applications of monoclonal antibodies.
- (F) Write clinical manifestation of tetanus in horses.
- (G) Write therapeutic management of lead toxicity in animals.
- (H) Describe any eight principles of Veterinary Ethics.
- (I) What is Estrus synchronization ? Write its advantages in large dairy herds.
- (J) Describe pathogenesis of shock.
- (K) What are constraints of insemination using frozen semen ?
- (L) Write manner of recording evidence in the court.
- (M) Write rules for post-mortem examination in veterolegal cases.



3. Write the answer of the following questions. Each answer should be limited to 300 words. (Attempt any three questions) 3 × 20 = 60

- (A) Write different stages of parturition in cattle.
- (B) Describe clinical manifestations, treatment and prevention of PPR in goats.
- (C) Write etiology, clinical signs and treatment of intestinal obstructions in animals.
- (D) Draw the diagram showing histological structure of compact bone and describe its micro-structure in detail.
- (E) What is Artificial Insemination ? Give the advantages of artificial insemination over natural breeding. Describe the method of collection of semen by AV method.

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