- Discuss about salient features of government schemes that can help rural youth for self employment. 0
- Discuss the general principles to be followed in selection and use of antimicrobial drugs in veterinary practice and the risks involved. a 00
- Define meat inspection and explain the principles of ante mortem and post mortem meat inspection procedures. Discuss the principles and basis of judgement during meat inspection. 9
- Explain the signs and hormonal changes associated with oestrous cycle in cow. 0

やややや

[Total No. of Pages: 4

Roll No

1(CCE-M)4

ANIMAL HUSBANDRY & VETERINARY SCIENCES-II

[02]

Time: 3 Hours

Maximum Marks: 300

INSTRUCTIONS

- Answers must be written in English. 1
- The number of marks carried by each question is indicated at the end of the question. ii)
- The answer to each question or part there of should begin on a fresh page. iii)
- Your answer should be precise and coherent. iv)
- The part/parts of the same question must be answered together and should not be interposed between answers to other questions. 2
- Candidates should attempt any five questions.
- If you encounter any typographical error, please read it as it appears in the text book.
- through the General Instructions on the back side of Candidates are in their own interest advised to go the title page of the Answer Script for strict adherence. viii)
- No continuation sheets shall be provided to any candidate under any circumstances. ix)
- Candidates shall put a cross (X) on blank pages of answer Script. X

2-11/2017

 Ξ

3

- xi) No blank page be left in between answer to various questions.
- xii) No programmable Calculator is allowed.
- xiii) No stencil (with different markings) is allowed.
- 1. a) What is Hardy-Weinberg Law? And discuss its application in genetics. (60)
- b) How phenotypic variance can be partitioned? Discuss how genetic and environmental variances in animal population can be estimated?
- c) Describe the common breeding strategies adopted during development of commercial broiler poultry breeds.
- 2. a) What is selection index? Critically assess the merits and demerits of selection index in breeding of farm animals in comparison to other methods of selection. (60)
- b) What are the advantages and draw backs of inbreeding of animals and how the drawbacks can be mitigated?
- c) Explain reciprocal recurrent selection and hybridization.
- a) Explain "cardiac cycle" with a neat diagram. (60)

3.

- b) How acid-base balance is regulated in an animal body?
- c) Explain the technique for preparation and staining of blood smear for protozoan parasites.

- a) Discus in detail the serological and molecular diagnostic tests that can be used for detection of common bacterial and viral diseases.
- b) Critically assess the reasons for recurrent outbreak of FMD disease in some countries and strategies adopted for its control.
- Discuss the etiology, pathogenesis, diagnosis and treatment of haemorrhagic septicaemia.
- 5. a) Explain the procedure for manufacture of ice-cream with a flow chart and discuss important factors influencing the quality of ice cream. (60)
- b) Give "Agmark" specifications for ghee.
- Critically appraise the merits and demerits of different packaging techniques commonly used for fluid milk.
- 6. a) List different diseases transmitted from animals to man.

 Discuss the etiology, pathogenesis, diagnosis and treatment of glanders. (60)
- b) Discuss the duties of a veterinarian in a slaughter house.
- Describe how animal by-products can be effectively utilized for economic development.
- a) Describe the procedure for production of meat and bone meal from fallen (dead) animals. (60)

7

b) Explain how internet and digital connectivity to rural areas can be innovatively harnessed to educate farmers.

2-11

3

Turn Over

3