

**1[CCE.M]1**

<p><b>Animal Husbandry &amp; Veterinary Science-II (02) PP</b></p>
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Time : Three Hours

Maximum Marks : 300

**INSTRUCTIONS**

- (i) Answers must be written in English.
- (ii) The number of marks carried by each question is indicated at the end of the question.
- (iii) The answer to each question or part thereof should begin on a fresh page.
- (iv) Your answers should be precise and coherent.
- (v) The part/parts of the same question must be answered together and should not be interposed between answers to other questions.
- (vi) Candidates should attempt questions nos. **1** and **5** which are compulsory and any **four** more out of the remaining questions, selecting at least **one** question from each section.
- (vii) If you encounter any typographical error, please read it as it appears in the text book.
- (viii) Candidates are in their own interest advised to go through the General Instructions on the back side of the title page of the Answer Script for strict adherence.

- (ix) No continuation sheets shall be provided to any candidate under any circumstances.
- (x) Candidates shall put a cross (X) on blank pages of Answer Script.
- (xi) No blank page be left in between answer to various questions.

### SECTION–A

1. Write short notes on any **four** of the following in about 150 words each : 60
  - (a) Amyloidosis
  - (b) Pregnancy toxæmia in ewes
  - (c) Colibacillosis
  - (d) Peste des petitis ruminants
  - (e) Renal function tests.
2. (a) What is your assessment of annual availability of different types of residues/byproducts and wastes from livestock, fisheries and poultry and their present uses in India ?
- (b) Discuss the strategies to control the Foot and Mouth disease in India. 45
3. (a) How are the antibiotics in manure and soil, a grave threat to animal health ? What are the alternatives to antibiotics growth promoters/veterinary neutraceuticals ?
- (b) Discuss biomarkers and measures to assess environmental pollution. 45
4. (a) Discuss various types of anaemias in animals, their diagnosis and treatment.

- (b) Discuss the epidemiological measures in the study of infectious diseases and their control.
- (c) Define Trysem. Discuss different possibilities and methods to provide self employment to educated youth under rural conditions.

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### SECTION–B

5. Write short notes on any **four** of the following in about 150 words each : 60
  - (a) Exfoliative cytology
  - (b) Biopsy
  - (c) Ionizing radiation
  - (d) Photosensitization
  - (e) Irradiation preservation of meat.
6. (a) Discuss theory and practice of post-mortem in animals.
- (b) Give an account of duties and functions of Veterinarians in wholesome meat production. 45
7. (a) Define inbreeding coefficient and coefficient of relationship.
- (b) What are the properties of genetic code ? Explain.
- (c) What are the methods of selection and aids to selection ?
- (d) What is the importance of breeding records at the farm ?
- (e) What are the basic tools for genetic improvement in animals ? 45
8. Discuss meat, fish, shellfish and mollusk borne zoonotic parasitic diseases. What is their present status in India and what are the methods to diagnose and prevent these diseases in animals and man ? 45