

2022

ANIMAL HUSBANDRY AND VETERINARY SCIENCE

PAPER-I

Time Allowed — 3 Hours

Full Marks — 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

Answers may be given either in English or in Bengali but all answers must be in one and same language.

Group-A

Answer any three questions.

1. (a) Write down the Animal Husbandry Programme for rural development.
(b) Define the social group. Write down about type of social group and its their function.
10+5+15+10=40
2. (a) Define Puberty. Write down the factors in details causing the infertility.
(b) Write down the composition of Semen and how to preserve the Semen.
(c) Write in details the advantage of Artificial Insemination. 15+15+10=40
3. (a) Write the partition of feed energy in animals and strategies used to methane emission from ruminants.
(b) Define feed additives used in poultry diet.
(c) Write benefits and limitation of microbials in animal feed. 10+15+15=40
4. (a) What are the objectives of green forder conservation?
(b) Write in details about the crops suitable for silage and step in silage making in field condition.
(c) Discuss the feeding strategies with emphasis on early lactation for high producing dairy cows. 10+15+15=40

Group-B

Answer any four questions.

5. (a) Describe silent contribution of Mendel's Principles of inheritance.
(b) Briefly discuss the Mendel law of Independent Assortment with suitable example.
(c) How do you view the contribution of G. J. Mendel in understanding the mechanism of inheritance?
(d) Write the method of selection of dairy animals.
(e) Write important breed of sheep. 10+10+10+10=40

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Please Turn Over

6. Attempt *any four* questions:

- (a) Write important poultry breed in India.
- (b) Write difference between inbreeding and outbreeding in animal husbandry.
- (c) Write the major and trace minerals and their sources.
- (d) Write down the grading of eggs.
- (e) Write negative feedback mechanism of hormonal regulation.

10+10+10+10=40

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