HPAS (M)-2014

ANIMAL HUSBANDRY AND VETERINARY

SCIENCE

Paper II

| Time: 3 | Hours Maximum Marks: 150 |
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| Note :— A | nswer any five questions including Question No. 5 |
| w | hich is compulsory. |
| 1. (a) | Define genetic parameters. 10 |
| (b) | Describe the various methods of heritability |
|) w | estimations for economic traits indicating most |
| * | efficient one. |
| (c) | How can you improve the precision of heritability |
| | estimate ? |
| 2. (a) | Define Hardy-Weinberg law. 10 |
| (b) | What are the consequences of genetic drift? How |
| s 51 | do these consequences depend on population |
| 133 10 00 33 20 | size ? |
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| (c) | What is progeny testing? What precautions are | | | | |
|-----|-----------------------------------------------|-------|-------------|---------|---------|
| | needed | while | undertaking | progeny | testing |
| | program | ? | | | 10 |

- 3. (a) What is the need of conservation of Animal genetic resources?
 - (b) What strategies you adopt for the conservation of hilly genetic resources?
 - (c) Describe different types of mastitis and their etiology, clinical findings, diagnosis, treatment and control.
- 4. (a) What is Anti-microbial drug resistance and write a note on various biochemical mechanisms of antimicrobial drug resistance.
 - (b) Describe in detail about various factors which modify
 the effect of drugs.
 - (c) Give in detail the vaccination programs available in Himachal Pradesh for prevention of contagious diseases of cattle, buffaloes, horses, sheep and goat.

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| 5. | Writ | e short notes on any three of the following: | |
|------|-----------------------------------------|-------------------------------------------------------|---------------|
| | (a) | Estimation of general and specific combini | ng |
| | | ability. | 10 |
| | (b) | Role of veterinarian in Slaughter houses. | 10 |
| | (c) | Diagnosis and treatment of colic in horses. | 10 |
| 9 | (d) | Differentiate Participatory Rural Appraisal (PR | A) |
| | | and Rapid Rural Appraisal (RRA). Describe the typ | es |
| ži. | | of interventions under TRYSEM. | 10 |
| 6. | (a) | Discuss hygienic requirements and standards i | for |
| | | animal drinking water. | 10 |
| | <i>(b)</i> | Discuss the strategy for prevention of water bor | ne |
| y-e- | | diseases in animals. | 10 |
| | (c) | How gaseous pollutants affect animal health a | \mathbf{nd} |
| > | *************************************** | production ? | 10 |
| 7. | (a) | Enlist the infectious diseases affecting cattle a | nd |
| | | equines. | 10 |
| | (b) | Describe the etiology, pathogenesis, clinical finding | ıg, |
| | - | prevention and treatment of Hemorrhag | gic |
| | 1994 | Septicemia in buffalo. | 10 |

| 4) | AH&VS—II |
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- (c) Write some important emerging zoonotic diseases commonly observed in your place and mention their preventive measures.
- 8. (a) Define market led extension. Describe the importance and scope of market led extension in Livestock Marketing.
 - (b) What are the characteristics should have in a newly perceived livestock technology? Discuss in detail.
 - (c) Describe the role of extension agent in adoption and diffusion of livestock technologies. 10