

CSM—13/23
PART—II/PAPER—VII
ANIMAL HUSBANDRY & VETERINARY SCIENCE
PAPER—II

**Candidate
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Time : 3 Hours

Full Marks : 250

*The question paper contains **18 (Eighteen)** questions
in **GROUP—A (12)** and **GROUP—B (06)** together.*

GROUP—A

*Candidates to attempt **10 (ten)** questions within word limit of **250**.*

*Each question carries **15** marks.*

1. Discuss the classification of endocrine glands in domestic animals and also explain the influence of their secretions on metabolism and homeostasis.
2. Define and classify autocoids. Explain their role in veterinary pharmacology with examples.
3. Explain the types of veterinary epidemiology in detail and also discuss the importance of epidemiological studies in controlling zoonotic diseases.
4. Describe the physiological adaptations of avian respiration. Explain how do birds compensate for high-altitude hypoxia.
5. Explain the structure and function of the Blood-Brain Barrier (BBB) in animals. How does it regulate drug penetration and protect the central nervous system?
6. Discuss the different types of hemorrhagic disorders in domestic animals and also explain the diagnosis and management.
7. Explain the structure and function of an the avian musculoskeletal system and also discuss the circulatory adaptation in birds.

8. Explain the mechanism of osmoregulation in ruminants. Discuss the role of kidneys and digestive system in maintaining electrolyte balance.
9. Write two short notes on the role of median, ulnar and radial nerves in bovine limb movement; physiology of coronary circulation and its clinical importance.
10. Discuss the role of veterinary public health in controlling food-borne infections. Explain surveillance and monitoring of livestock diseases.
11. Explain the different methods adopted to educate farmers under rural conditions and also discuss the different animal husbandry programmes for rural development.
12. Explain the process of hematopoiesis and also describe the role of bone marrow in hematopoiesis.

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GROUP—B

*Candidates to attempt **05 (five)** questions within word limit of **300**.*

*Each question carries **20** marks.*

13. Explain the importance of BIS and Agmark certification in ensuring milk product quality. Describe the key quality parameters associated with BIS and Agmark certification.
14. Explain in detail the structure, composition and nutritive value of eggs and also discuss the marketing of eggs and their products.
15. Describe the different building components requirements of modern slaughter house. Discuss various slaughter house by-products and their utilization.
16. Define the 'zero disease concept' in immunology. Explain how this approach contributes to herd immunity and disease control.
17. Discuss the classification of fractures in large animals. Explain in detail the principles of fracture management in veterinary practice.
18. Write two short notes on the source of milk contamination and clean milk production; marketing of milk products.

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