

CSM – 9/16
Animal Husbandry and Veterinary Science
Paper – II

Time : 3 hours

Full Marks : 300

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The figures in the right-hand margin indicate marks.

*Candidates should attempt Q. No. 1 from Section – A and Q. No. 5 from Section – B which are compulsory and **three** of the remaining questions, selecting at least **one** from each Section.*

SECTION – A

1. Answer any **three** of the following : $20 \times 3 = 60$
 - (a) Give a detailed account of mitosis and the chemicals which affect mitosis at different stages.
 - (b) What are the various type of placenta in domestic animals ? What is the effect of type of placenta in immunity in newborn ?

- (c) Describe, in detail, various hemorrhagic disorders in canines.
- (d) Define Shock ? What are the physiological mechanisms involved in shock ?
2. (a) Classify antibiotics. Explain the mode of action of different antibiotics in detail. 30
- (b) Describe the structure of Kidney. Write about kidney function tests. What are the various functions of Kidney in well being of an animal ?

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3. (a) How do drugs find their way into animals and animal products ? What are the approaches for minimizing drug residues in livestock products ? 10+20 = 30
- (b) What is the effect of climate/environment on dairy animal productivity ? Explain with relevant data. 30
4. (a) Classify zoonoses with examples. Give a detailed account of bacterial zoonoses and their prevention. 10+20 = 30
- (b) Define Epidemiology. Describe, in detail, how epidemiological data is collected and used for disease control. 30

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SECTION – B

5. Answer any **three** of the following :
- (a) Describe the etiology, pathogenesis, symptoms, lesions and control of foot and mouth disease in cattle. $2+5+5+5+3 = 20$
 - (b) Write a detailed account of etiology, symptoms, diagnosis and treatment of milk fever. $2+6+6+6 = 20$
 - (c) Describe the various types of vaccines with examples. What are the advantages and limitations of live vaccines ? $10+10 = 20$
 - (d) How do you diagnose and control Bovine viral diarrhoea in a herd ? 20
6. Answer any **two** of the following :
- (a) Describe, in detail, about important diseases caused by deficiency of vitamins in livestock. 30
 - (b) Define Anesthesia. What are the advantages of local anesthesia over general anesthesia ? Which are contraindicated factors for general anesthesia ? $6+12+12 = 30$

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- (c) Write, in detail, on collection of samples for laboratory investigation with special reference to choice of samples, collection media, packing and transport to disease investigation laboratory. 30

7. Answer any **three** of the following :

- (a) Describe the quality testing and grading of raw milk. How is the milk stored at different stages while the milk passes from production to the consumer ? 5+5+10 = 20

- (b) Give a detailed account of BIS standards and Agmark specifications for milk. 10+10 = 20

- (c) What are the common adulteration practices with reference to meat ? What methods are used for detecting the adulteration of meat ? 7+13 = 20

- (d) Write short notes on any **five** of the following : 4×5 = 20

- (i) Antemortem care of food animals
- (ii) Stamping out policy
- (iii) Abomasal displacement
- (iv) Technology transfer and feedback

- (v) SPCA
 - (vi) Chronic renal failure
 - (vii) Blood-brain barrier
 - (viii) Gametogenesis
 - (ix) Autocoids
8. (a) Write about the factors that influence meat spoilage. Give a brief account of meat borne infections. 8+12 = 20
- (b) Write, in detail, on various slaughter house by-products and their utilization. 20
- (c) Describe the etiology, pathogenesis, diagnosis and control of PPR in small ruminants. 2+6+6+6 = 20

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