VLD 421: Veterinary Clinical Biochemistry and Laboratory Diagnosis - I (0+1)

Question Bank

Write short notes on the following.

1. Metabolic alkalosis
2. Bovine ketosis
3. Pregnancy toxemia.
4. Lactose intolerance.
5. Gall stones.
6. Clinical significance of BUN.
7. Van denberg test.
8. Clinical significance of Alanine amino transferase.
9. Role of Alkaline phosphatase in cholestasis.
10. Tissue Fixatives
11. Infiltration.
12. Embedding.
13. Fine needle aspiration biopsy.
14. Preservative for collection samples.
15. Streak plate method for isolation of bacteria.
16. Gram staining
17. Acid fast staining .
18. Different types of haemolysis on blood agar.
19. Catalase test
20. Oxidase test
21. Indole test
22. Citrate test
23. Triple sugar iron test
24. Merits of Dot immuno assay
25. Merits and demerits of Plate agglutination test.
26. Copper – guaiac test

Write detailed answers.

1. Explain different types of ketoacidosis ?.
2. Enumerate and explain the different types of glycogen storage disease ?.
3. Explain in details about different types of jaundice ?.
4. Explain in details about different tests to assess the liver function ?.
5. Explain different tests to evaluate the kidney function?.
6. Enumerate different tests to evaluate the pancreatic function ?.
7. Write in details about the haematoxylin and eosin staining procedure ?.
8. What are different method of biopsy and explain it ?.
9. List the materials to be collected and preservatives for the following viral diseases?.
    a) Foot and Mouth disease
    b) Pesti des petitis ruminants
    c) Blue tongue
    d) Raniket disease
    e) Infectious bursal disease
10. List the materials to be collected for the following bacterial diseases?.
    a) Fowl cholera
    b) Coryza
    c) Brucellosis
    d) Enterotexmia
    e) Tuberculosis.
11. Write the detailed procedure for antibiogram ?.
12. Write the procedure for agar gel precipitation test ?.
13. Write the detailed procedure for indirect ELISA ?.
14. Write the procedure for tube agglutination test?.
15. Write the detailed procedure for haemagglutination test ?.
16. Write the principle and detailed procedure for the haemagglutination inhibition test ?.
17. Describe the different methods for extraction of toxic materials from sample ?.
18. Write the symptoms of following poisons?.
    a) Organo phospjorus compound
    b) Lead
    c) Snake venom
    d) Cyanogenic plants