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Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Course Title: Zoo and Lab. Animal Medicine (Theory)
Course Code: ZAM-402
Full Marks: 55, Time: 3 Hours

(Figures in the right margins indicate full marks. Answer any 3 (three) questions from each section of which Question No. 5 (Five) is compulsory. Use separate answer script for each section.)

Section-A

1. a) Enlist the protected areas for wild life in Bangladesh. Write down the scopes of zoo vets in Bangladesh. 4.0
- b) Differentiate zoo medicine from wild life medicine. 3.0
- c) List the endangered wild life in Bangladesh. 2.0

2. a) List the chemical agents those are used as immobilizing agents with their dose, route and antidote for zoo and wild animals. 5.0
- b) Briefly describe different restraining methods used in zoo and safari parks. 4.0

3. a) Write down the clinical findings, treatment and control measures of anthrax in Asian elephant in a zoo. 4.0
- b) List the common parasites of elephant. How will you treat them? 3.0
- c) How will you protect the elephants from rabies infection in a zoo? 2.0

4. a) List the zoonotic diseases of primates. Write down the etiology, clinical findings, diagnosis, treatment and control measures of TB in monkey. 6.0
- b) How will you protect the monkey from parasitic infestation in a zoo? 3.0

Section-B

5. a) Write down the etiology, clinical findings and treatment of sarcoptic mange infestation in camel. 3.0
- b) Mention the etiology, transmission, clinical signs, postmortem lesions, diagnosis, treatment, prevention and control of listeriosis in Royal Bengal Tiger at the National Zoo, Mirpur, Dhaka. 4.0
- c) Write down the etiology, clinical signs, postmortem lesions and treatment of Chlamyophillosis in myna. 3.0

6. a) Write down the etiology, transmission, clinical syndrome, zoonotic importance, treatment and control of Plague in golden hamster of Animal Resource Branch, ICDDR, Mohakali, Dhaka. 5.0
- b) Name two important viral diseases of pheasant in which pathognomonic clinical portmortem lesion in hepatomegaly. How would you differentiate them? 4.0

7. a) Write down the etiology, transmission, clinical findings, postmortem lesions, diagnosis, prognosis, treatment, prevention and control of Rinder Pest in giraffe. 6.0
- b) Describe the etiology, clinical signs, diagnosis, prognosis and treatment of fascioliasis of deer. 3.0

8. Write down the prescription of the followings: 1.5×6= 9.0
- a) A lion of 100kg body wt suffering from ascariasis.
- b) A rabbit of 1.5 kg body wt suffering from mite infestation.
- c) A bear of 150kg body wt suffering from tick infestation.
- d) A tiger of 120kg body wt suffering from feline pneumonitis
- e) An emu of 40kg body wt suffering from nutritional roup.
- f) A python of 50kg body wt suffering from Ranifer infestation.

Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Subject: Veterinary Jurisprudence (Theory)
Course Code: VJR-402
Full Marks: 35, Time: 2 Hours

(Figures in the right margin indicate full marks. Answer 2 (two) questions from each section of which question No. 4 is compulsory. Use separate answer script for each section.)

Section-A

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| 1. | a) Describe about the veterinary jurisprudence. What are the significances of veterinary ethics? | 5.0 |
| | b) What are the differences between antimortem and postmortem wounds? Define gun shot wound. | 4.0 |
| 2. | a) What is veterinary forensic medicine? Write down the oath of a veterinarian. | 5.0 |
| | b) How do you examine an animal for bestiality? | 4.0 |
| 3. | a) Describe the signs of death in animals. | 4.0 |
| | b) Describe the common frauds which are adopt in sale of meat and milk | 5.0 |

Section-B

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|----|---|-------------|
| 4. | a) List out the current Legislation, Acts and Ordinances of livestock in Bangladesh. | 2.0 |
| | b) Write down the diseases of Animal Act, 2005 in brief. | 6.0 |
| 5. | a) Write down the format of health certificate of pet for export. | 5.0 |
| | b) Write down the procedure of collection, preservation and dispatch of materials to laboratory in veterolegal cases? | 4.0 |
| 6. | Write short notes on any 3 (three) of the followings: | 3x3=
9.0 |
| | i) Animal welfare | |
| | ii) Law | |
| | iii) Evidence | |
| | iv) Insurance of animals | |

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Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Subject: Reproductive Diseases and Obstetrics (Theory)
Course Code: RDO-402
Full Marks: 70, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer any five questions from each section.
Use separate answer script for each section.)

Section-A

1. a) Define oestrous cycle. Mention the four stages of oestrous cycle with their duration, behavioral signs and genital organic changes in a cow. 6.0
b) List the methods of estrus detection in a dairy herd, indicating the most commonly used one. 1.0
2. a) Write down the functions of ovarian hormones. 3.0
b) Mention the therapeutic uses of GnRH, Prostaglandin F_{2α} and Oxytocin in livestock species. 4.0
3. a) Mention the indications of synchronization of oestrus in a dairy herd. 1.0
b) Describe the oestrus synchronization methods in the cow and ewe. 6.0
4. How ovulation and fertilization occur in a cow? What are the criteria to be fulfilled for successful fertilization? 7.0
5. a) How placenta is formed in the cow? Enumerate the gross and histological types of placenta with illustration in cows, bitches and non-human primates. 2.0
b) How initiation of parturition occurs in a cow? Discuss the process of involution of uterus in the bovine in short. 5.0
6. Discuss any two of the followings: 3.5x2=
i) Anoestrus in the postpartum cow. 7.0
ii) Pyometra in the bitches.
iii) Follicular cysts in the bovine ovary.

Section-B

7. a) Define puberty and sexual maturity. 2.0
b) What are the external factors that affect the onset of puberty? 1.0
c) Enlist the gynaecological diseases. Briefly describe about sub-clinical endometritis and schistosoma reflexus. 4.0
8. a) Mention the basic principles for handling a case of dystocia. 1.0
b) How will you handle a case of dystocia in a cow due to relative oversized and vertex posture of fetus. 6.0
9. Write down the indications of caesarean section and fetotomy operation in a cow. Describe the process of caesarean operation in a cow with pre and post operative care and management. 7.0
10. What are the important features of semen evaluation? How will you proceed to evaluate the semen in a bull used for stud purpose? 7.0
11. Write down the etiology, treatment and prevention of (i) Seminal vesiculitis in a bull (ii) Uterine inertia in the bitch (iii) Retention of placenta in a cow (iv) Mummified foetus in the cow 7.0
12. a) Define spermatogenesis. 1.0
b) Describe the process from spermatogenesis to the deposition of mature spermatozoa in the female genital tract including the endocrine mechanism involved in its control. 6.0

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Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Subject: Hides, skins and wool technology (Theory)
Course Code: HWT-402
Full Marks: 55, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer 3 (three) questions from each section of which question No. 5 (five) is compulsory. Use separate answer script for each section.)

Section-A

1. a) Write down the economic importance of hides and skin production in Bangladesh 2.0
b) Define fallen hide and game skin. What are the reasons of production of fallen hide in a country 3.0
c) Give a policy how to protect the environmental pollution by tannery waste and dirt produced by animal slaughtering during Eid-Ul-Azha. 4.0
2. a) Draw and label the anatomical structure of cow hide. 4.0
b) Briefly describe the corium of hides. 3.0
c) Differentiate between chrome and vegetable tanning 2.0
3. a) Shortly describe the preservation process of hides and skins. 4.0
b) Write down the different types of damage and defects of hides and skins. 2.0
c) What are the causes of defects and damage with their remedies? 3.0
4. a) State briefly about the chemical composition hides and skins. 2.0
b) Compare microscopically between wool sheep skin and hair sheep skin. 3.0
c) Define tensile strength. Briefly describe why and how physical properties are important for measure the quality of finished leather? 4.0

Section-B

5. Define following terms 1x10=1
i) Liming ii) Bating iii) Curing iv) True skin v) Finished leather vi) Kemp
vii) Woolen viii) Virgin wool ix) Flay cuts x) Hair slip.
6. a) Briefly describe the manufacturing process of wool to fibre. 4.0
b) What are the factors affecting the quality of wool? 3.0
c) Wool act as "natural warmer" justify it. 2.0
7. a) Write down the relationship between condition and shrinkage of wool. 2.0
b) Write in details about different virtues of wool fibers. 3.0
c) Describe about different types of impurities of wool fibers. 4.0
8. a) What is lanolin? Write the importance and use of lanolin. 2.0
b) Define grading of wool. State shortly about different grading system of wool. 3.0
c) Describe briefly about different steps of manufacturing from wool to fabric. 4.0

Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Course Title: Metabolic Diseases (Theory)
Course Code: MTD-402
Full Marks: 70, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer 3 (**three**) questions from each section of which question no. **1 and 5** are compulsory. Use separate answer script for each section)

Section-A

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|-------|---|-----|
| 1. a) | Tabulate the differences between the metabolic diseases and production diseases. | 3.0 |
| b) | What are the general clinical manifestations of metabolic diseases? | 3.0 |
| c) | Which test may be done for diagnosis of metabolic diseases before showing clinical signs? Write down its procedure and application. | 5.0 |
| 2. a) | What are the common metabolic disorders? In your opinion which one is more common in high yielding milking cows related to parturition? | 2.0 |
| b) | Describe the etiology and risk factors of milk fever in cow. | 5.0 |
| c) | Tabulate the differential diagnosis of common courses of recumbancy of parturient adult cattle. | 5.0 |
| 3. a) | What do you mean by Downer cow syndrome? How will you diagnose and treat the case? | 6.0 |
| b) | Describe in short the clinical signs and line of treatment of ketosis in dairy cow. | 6.0 |
| 4. a) | List the mineral deficiency diseases of cattle and horse. | 3.0 |
| b) | What is Azoturia? Write down the etiology, epidemiology, clinical findings and line of treatment of Monday morning disease. | 9.0 |

Section-B

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|-------|--|------|
| 5. a) | What are the precursor of Vitamin E and vitamin A in nature? Why and how these vitamins require for reproduction of mammalian species? | 4.0 |
| b) | Briefly describe the clinical manifestations, diagnosis and line of treatment of muscular dystrophy in growing calves. | 7.0 |
| 6. a) | What is post parturient hemoglobinuria? How do you differentiate it from hematuria? | 3.0 |
| b) | Briefly describe the etiology, epidemiology, clinical signs and line of treatment of post parturient haemoglobinuria in lactating cow. | 7.0 |
| c) | What is blood transfusion? Do you need any blood grouping like human? | 2.0 |
| 7. a) | Define and cited macro and micro minerals that highly require for growth of animals? | 2.0 |
| b) | Write down the name of diseases that produced due to lack of ionic copper and zink deficiency in livestock. | 4.0 |
| c) | Mention the common pathological consequences develop in animal due to micro deficiency of cobalt, iodine and manganese. | 4.0 |
| d) | Mention common clinical findings of mountain sickness in ruminant. | 2.0 |
| 8. | Write short notes on any two: | 6x2= |
| | a) Pregnancy toxemia b) Diabetes mellitus in dog c) Auto-immune hemolytic anemia | 12.0 |

Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Course Title: Livestock Marketing (Theory)
Course Code: LMR-402
Full Marks: 70, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer 3 (**three**) questions from each section of which Question No. 1 and 5 are compulsory. Use separate answer script for each section)

Section-A

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|-------|---|-----|
| 1. a) | Define marketing margin. State the concepts of marketing margin. | 3.0 |
| b) | Write the importance of studying marketing margin and costs. | 4.0 |
| c) | Discuss the measures to the assessment of marketing efficiency. | 4.0 |
| 2. a) | How would you distinguish between a market and marketing? | 3.0 |
| b) | What are the approaches to the study of marketing? Why we need approach to study marketing? Explain. | 5.0 |
| c) | Explain the uses of different approaches to the study of marketing. | 4.0 |
| 3. a) | What is the importance of transportation in livestock marketing? | 5.0 |
| b) | What are the common modes of transportation of live animals? | 2.0 |
| c) | Suggest measures for the solutions of the current problems in connection with livestock transportation. | 5.0 |
| 4. a) | What is marketing research? Write the scope of marketing research. | 5.0 |
| b) | Briefly discuss the procedures of marketing research. | 5.0 |
| c) | Discuss the problems of conducting marketing research. | 2.0 |

Section-B

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|-------|---|-----|
| 5. a) | Distinguish between wholesaling and wholesaler. Write the characteristics of wholesaler. | 3.0 |
| b) | Write down the roles of wholesaler in marketing of livestock products. | 4.0 |
| c) | Briefly discuss the characteristics of retail marketing of consumer goods in Bangladesh. | 4.0 |
| 6. a) | What are the features of livestock and its production? | 3.0 |
| b) | Would you consider grading as important function livestock marketing? | 4.0 |
| c) | What measures would you suggest for adoption of grading in livestock marketing? Explain. | 5.0 |
| 7. a) | What do you mean by cooperative marketing? Write the advantages and disadvantages of cooperative marketing. | 4.0 |
| b) | Briefly discuss the principles of cooperative society. | 4.0 |
| c) | Why the cooperative system in agriculture failed in Bangladesh? | 4.0 |
| 8. a) | How do you explain marketing system of any livestock product? | 2.0 |
| b) | Briefly illustrate the marketing system of hides and skins in Bangladesh. | 6.0 |
| c) | Write down the common problems in marketing of hides and skins in Bangladesh. | 4.0 |

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Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Course Title: Agricultural Extension (Theory)
Course Code: AEX-402
Full Marks: 55, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer 3 (three) questions from each section of which Question No. 1 is compulsory. Use separate answer script for each section)

Section-A

1. a) Explain the terms of Extension and Agricultural Extension. 3.0
b) Discuss the scope of Livestock Extension services in Bangladesh. 7.0
2. a) Define communication. Explain the process of communication following by a model. 3.0
b) What do you mean by noise in communication? 3.0
c) Suggest measures for the solutions of the current problems in connection with livestock transportation. 3.0
3. a) Define extension teaching method. Classify extension teaching methods. 3.0
b) As an extension worker how you conduct method demonstration for framers to show the preparation of Urea Molasses Block? 6.0
4. a) Define monitoring and evaluation. 2.0
b) State the type of evaluation. 3.0
c) Write down the importance of monitoring for implementing livestock extension programme in Bangladesh. 4.0

Section-B

5. a) State the characteristics of good message. 4.0
b) Do you think Department of Livestock Services (DLS) is an extension organization? Justify your answer? 5.0
6. a) Justify 'Peoples Participation' is an extension programme. 2.0
b) Differentiate between Rapid Rural Appraisal and Participatory Rural Appraisal. 3.0
c) Briefly describe the importance of participatory methods in developing and executing livestock extension programme in Bangladesh. 4.0
7. a) What is leadership? 2.0
b) State the different types of leaders with examples. 3.0
c) Briefly describe the qualities of a good leader. 4.0
8. Write short notes on the followings (any three): 3×3= 9.0
a. Result demonstration; b. Communication gap;
c. Elements of learning; d. Motivation cycle.

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Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Subject: Veterinary Public Health (Zoonoses and Food Hygiene) (Theory)
Course Code: VPH-402
Full Marks: 70, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer any three questions from each section of which question number 1 and 5 are compulsory. Use separate answer script for each section.)

Section-A

1. a) What do you mean by meat hygiene? Explain the public health activities of veterinary Professional in Bangladesh. 4
b) State the crucial impact of zoonoses on human as well as animal health. 4
c) Mention the points to be considered during selection of an ideal location for establishing a slaughter house. 3
2. a) What is zoonoses ? Classify zoonoses according to causal agents. Describe the measures one should take to control zoonotic disease general. 8
b) Illustrate the different primal and sub-primal cuts in fore quarter practiced in meat industry. 4
3. a) What is carcass yield? Describe the factors influencing carcass yield. 4
b) Briefly describe the method of meat preservation. 4
c) Why does abnormal odor arise in carcass? Explain about red meat. 4
4. a) What are the principal objectives of ante-mortem inspection? Describe the sequence that you have to follow during ante-mortem inspection of cattle. 7
b) Describe the aerobic spoilage of meat and meat production. 5

Section-B

5. a) Define evaporated milk. Sketch the important sections of Veterinary Public Health activities solely engaged with control and prevention of any untoward situation in our country. 5
b) Differentiate the following terms : DFD and PSE; Frying and Roasting; DRT and Z value. 6
6. a) What is food-borne disease? How will you investigate the outbreak of a food borne disease? 4
b) Differentiate food borne infection from food borne intoxication. 3
c) Describe briefly the food borne disease caused by clostridial species with its prevention. 5
7. a) Define food additives. Write down the properties of an ideal antimicrobial preservative. 7
b) Discuss briefly anaerobic spoilage of meat. 5
8. Write short notes on any three 3x4 =12
i) Canning ii) O-R potential iii) Electrical stunning iv) Judgment symbols

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Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2011
Subject: Animal Breeding-II (Theory)
Course Code: ABR-402
Full Marks: 55, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer 3 (Three) questions from each section of which question No. 1 is compulsory.)

Section-A

1. (a) What is cross breeding? Write down its advantages and disadvantages in dairy cattle development. 3.0
(b) How you will develop the indigenous Zebu cattle of Bangladesh for dairy purpose - describe in detail. 7.0
2. (a) What do you mean by inbreeding depression? Write down its effects on poultry population. 3.0
(b) Briefly describe the genetic and phenotypic effect of inbreeding with an example. 6.0
3. (a) Define embryo transfer technique. Write down the significance of MOET. 4.0
(b) What is super ovulation? Write in brief the steps of super ovulation in cow. 5.0
4. (a) Define open nucleus breeding system. What are the merits and demerits of open nucleus breeding system? 5.0
(b) Enumerate the cattle breeding policy of Bangladesh. 4.0

Section-B

5. (a) Define heterosis. Write in brief about different kinds of heterosis. 4.0
(b) Mention different types of gene action those are involve on heterosis. Proof that the heterosis of F₁ generation is double the heterosis in F₂ generation under the dominant gene action. 5.0
6. (a) What is semen preservation? Write down its importance. 3.0
(b) Write in detail about the frozen sense preservation technique. 6.0
7. (a) What do you mean by the term biotechnology? Mention different kinds of biotechnology those are used for livestock development. 4.0
(b) What is transgenic animal? How you will develop a transgenic animal? 5.0
8. Write short notes on: any 3 (three) (3x3)= 9.0
(a) Rotational crossing
(b) Embryo splitting
(c) Semen evaluation
(d) Cloning

Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2010
Course Title: Livestock Marketing (Theory)
Course Code: LMR-402
Full Marks: 55, Time: 3 Hours

(Figures in the right margins indicate full marks. Answer 3 (three) questions from each section of which Question No. 3(Three) from section A and 6(six) from section B is compulsory. Use separate answer script for each section.)

Section-A

1. a) Define market and marketing. Write the characteristics of a good development market. 4.0
b) Briefly discuss the role of marketing in the economic development of Bangladesh. 5.0
c) Why the marketing of livestock products is costly and productive? Explain. 3.0
2. a) Distinguish between the characteristics of farm and industrial products. 4.0
b) Briefly discuss the functions of livestock marketing in Bangladesh. 5.0
c) Write the necessities of scientific marketing of farm products. 3.0
3. a) Define marketing cost. Why we study marketing cost? 3.0
b) What factors affect the cost of livestock marketing in Bangladesh. 4.0
c) How the cost of farm products marketing cost can be reduced? 4.0
4. a) Define marketing system. Write the components of marketing system. 3.0
b) Briefly discuss the cattle marketing system in Bangladesh. 6.0
c) State the features of a good marketing system. 3.0

Section-B

5. a) Write short notes on (any four) 3x4 =12.0
i. Marketing Approach; ii. Marketing MIX; iii. Marketing Research
iv. Price Spread, v. Marketing Margin.
6. a) Define marketing channel. What factors affect the choice of marketing channel? 4.0
b) Briefly discuss the different types of marketing middlemen. 5.0
c) Do you think middlemen are always act as a parasite in marketing. 2.0
7. a) Distinguish between whole selling and retailing. Discuss the functions of whole seller. 5.0
b) Write the characteristics of retailing of livestock products. 3.0
c) Do you think retailing of livestock products is efficient? 4.0
8. a) What do you mean by marketing efficiency? What measures do you consider to increase the marketing efficiency? 4.0
b) Write the importance of studying marketing margin. 3.0
c) Discuss the advantages of co-operative marketing of livestock products in Bangladesh. 5.0

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Chittagong Veterinary and Animal Sciences University
DVM 4th Year 2nd Semester Final Examination, 2010
Course Title: Animal Breeding (Theory)
Course Code: ABR-402
Full Marks: 55, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer 3 (three) questions from each section of which Question No. 1 is compulsory. Use separate answer script for each section)

Section-A

1. a) What do you mean by genetic improvement of livestock? Suppose you are asked to develop a dairy breed using Red Chittagong Cattle genetic resources- describe the procedural steps. 7
b) What is breed complementation? –Explain. 3
2. a) What is inbreeding co-efficient? How the rate of inbreeding can be estimated? 4
b) How will you develop an inbred line of poultry in Bangladesh? 5
3. a) What is heterosis? How can you estimate the hybrid vigor for economic traits in cattle? 5
b) Describe about the genetic causes of heterosis. 4
4. a) Define biotechnology. List different biotechnological approaches used in the field of livestock improvement in Bangladesh. 2
b) Differentiate X and Y chromosome bearing spermatozoa. 3
c) Briefly discuss about the flow cytometry technique of sperm separation. 4

Section-B

5. a) Mention the advantages and disadvantages of embryo transfer programme. 3
b) Write down the embryo transplantation procedure of cow. 6
6. a) Mention the steps to implement a comprehensive cattle breeding policy in Bangladesh. 2
b) Describe the current breeding policy for dairy cattle genetic improvement in Bangladesh. 5
c) Which breed combinations are more adoptable in Bangladesh and why? 2
7. a) What is “Nucleus breeding system”? Give outline for a long term ONBS involving farmer’s community for dairy development in Bangladesh. 6
b) What should be the criteria for a recording system? Explain the importance of adequate record keeping as it relates to herd reproductive performance. 3
8. Write short notes on (any three) 3×3=9
 - a) Crossbreeding in dairy cattle.
 - b) Semen preservation.
 - c) Estrus synchronization in a dairy herd.
 - d) In-Vitro Fertilization (IVF) technique.