# Chattogram Veterinary and Animal Sciences University DVM 3rd Year 1<sup>st</sup> Semester Final Examination 2023

Course Title: Large Animal Production

Course Code: LAP-301 (T) Full Marks: 70, Time: 3 hours

(Figures in the right margin indicate full marks. Answer five (5) questions from each section. Use a separate answer script for each section. Split answers are strongly discouraged.)

| 1.  | a)       | What do you mean by Animal Production? Mention the age of feeding colostrum, whole milk, skim milk, milk replacer, calf starter, and concentrate feed in a tabular form.  | 4       |
|---|----------|---|---------|
|   | b)       | Briefly describe the housing system of backyard dairy farming in Bangladesh.  | 3       |
| 2.  | a)<br>b) | State the inclusion level of different types of feedstuffs in a beef fattening ration. What are the factors considered for feeding cattle for their fattening purpose?  | 2       |
| 3.  | a)<br>b) | Point out the direct effect of tropical climate on buffalo production.<br>How would you train a first calver buffalo cow for milking?   | 3       |
| 4.  | a)<br>b) | What care should be taken for the buffalo cow at and immediately after calving? State the special care required for the management of buffalo bull calves.  | 3       |
| 5.  | a)       | gestation period, calving interval, and reproductive efficiency.  | 6       |
|   | b)       | Write a short note on silent heat in Buffalo.   | . 1     |
| 6.  | a)       | Differentiate the term Heritability from Repeatability.   | 2       |
|   | b)       | Tabulate the heritability and repeatability values of the following parameters of cattle – Birth weight, Weaning weight, Milk yield, Butter fat content, and Calving interval.  | 3       |
|   |          | SECTION-B   | 09 40   |
| 7.  | a)       | Transfer I  | 4       |
|   | b)       | considering the reproductive physiological parameters.  |         |
|   | U)       | considering the reproductive physiological parameters.  Point out the factors to be considered for selecting the appropriate genotype of the dairy cow for profitable dairy farming in Bangladesh condition.  | 3       |
| 8.  |          | Point out the factors to be considered for selecting the appropriate genotype of the dairy cow for profitable dairy farming in Bangladesh condition.  What are challenges and opportunities for beef production in developing   | 3       |
| 8.  |          | Point out the factors to be considered for selecting the appropriate genotype of the dairy cow for profitable dairy farming in Bangladesh condition.  |         |
| 9.  | a)<br>b) | Point out the factors to be considered for selecting the appropriate genotype of the dairy cow for profitable dairy farming in Bangladesh condition.  What are challenges and opportunities for beef production in developing countries like Bangladesh?  |         |
| <ol> <li>8.</li> <li>9.</li> <li>10.</li> </ol> | a) a) b) | Point out the factors to be considered for selecting the appropriate genotype of the dairy cow for profitable dairy farming in Bangladesh condition.  What are challenges and opportunities for beef production in developing countries like Bangladesh?  Discuss the nutritional requirements of milch cow.  What are constraints and prospect of dairy buffalo farming in Bangladesh?  What parameters to be considered for determining the time of weaning a buffalo calf?  List the direct climatic influence on dairy cows in Bangladesh condition.  | 4       |
|   | a) a) b) | Point out the factors to be considered for selecting the appropriate genotype of the dairy cow for profitable dairy farming in Bangladesh condition.  What are challenges and opportunities for beef production in developing countries like Bangladesh?  Discuss the nutritional requirements of milch cow.  What are constraints and prospect of dairy buffalo farming in Bangladesh?  What parameters to be considered for determining the time of weaning a buffalo calf?  List the direct climatic influence on dairy cows in Bangladesh condition.  What is drying off? State the principles of drying off.  Discuss the ancestors of the following dairy breeds – Jersey, Holstein Friesian, | 4       |
| 10.   | a) a) b) | Point out the factors to be considered for selecting the appropriate genotype of the dairy cow for profitable dairy farming in Bangladesh condition.  What are challenges and opportunities for beef production in developing countries like Bangladesh?  Discuss the nutritional requirements of milch cow.  What are constraints and prospect of dairy buffalo farming in Bangladesh?  What parameters to be considered for determining the time of weaning a buffalo calf?  List the direct climatic influence on dairy cows in Bangladesh condition.  What is drying off? State the principles of drying off.   | 3 3 4 3 |

## Chattogram Veterinary and Animal Sciences University

### DVM 3<sup>rd</sup> Year 1<sup>st</sup> Semester Final Examination 2023

### Course Title: Dairy Microbiology (Theory)

Course Code: DMC-301 (T)
Full Marks: 35; Time: 2 Hours

(Figures in the right margin indicate full marks. Answer any three (3) questions from each section, where question no. one (1) and five (5) are compulsory. Use separate answer script for each section.)

| 1.  | a)   | What is Dairy Microbiology? Write down the significance of Dairy Microbiology.   | 2.0           |
|-----|------|--|---------------|
| e e | b)   | Classify Lactobacteriaceae family with example.  | 2.0           |
|     | c)   | Outline the role of microorganisms in dairy industry.  | 1.0           |
| 2.  | a)   | Define dairy starter culture with examples.  | 1.0           |
|     | b)   | Give a flow chart for the culture preparation.   | 2.0           |
|     | c)   | Enlist the common culture defects.   | 1.0           |
|     | d)   | What are the bacterial cultures used in fermented milk product manufacture?  | 2.0           |
| 3.  | a)   | Define milk-borne disease with classification.   | 1.5           |
|     | b)   | State one most important organism for milk- borne disease with their sign, symptoms, prevention and control.   | 3.0           |
|     | c)   | How to prevent milk-borne infectious diseases?   | 1.5           |
| 4.  | a) M | te short notes (any 3):  licrobiology of Butter b) Microbiological defect of milk c) Microbiological dards of Grade-A milk and milk products. d) Undesirable fermentation of milk. | 3 x 2=        |
|     |      | SECTION-B  |               |
| 5.  | a)   | What are the steps should be taken for the safe milk production? Briefly describe it.  | 2.0           |
|     | b)   | What are the various sources of contamination of milk and milk products? Briefly describe with schematic diagram.  | 2.5           |
|     | c)   | Illustrate the physical and chemical agent used for destruction of microorganism in dairy microbiology.  | 1.5           |
| 6.  | a) . | Define Thermoduric bacteria with examples.   | 1.0           |
|     | b)   | Write down the sources and significance of Thermoduric bacteria in milk and milk products.   | 3.0           |
|     | c)   | Write down the effect of Thermoduric bacteria on self-life of milk at room temperature in Bangladesh.  | 2.0           |
| 7.  | a)   | Define Probiotics with example.  | 1.0           |
|     | b)   | Briefly describe the health benefits of Probiotics.  | 3.0           |
|     | c)   | What is the significance of Coliform bacteria in milk and milk products?   | 2.0           |
| 8.  | a)   | What is HACCP?   | 1.0           |
|     | b)   | What are the 7 principles of HACCP?  | 2.0           |
|     | c)   | Illustrate the HACCP description chart for fluid milk.   | 3.0           |
|     |      |  | in the second |

# Chattogram Veterinary and Animal Sciences University DVM 3<sup>rd</sup> Year 1<sup>st</sup>Semester Final Examination-2023

Course Title: Virology Course Code:VIR-301(T) Full Marks: 70, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer three (3) questions from each section where question number 1 and 5 are compulsory. Use separate answer script for each section. Fractions of the questions are encouraged to answered together.)

| 1. | a)  | Differentiate Marek's disease virus from Lymphoid leukosis virus.                 | 3.0                 |
|----|-----|---|---------------------|
|    | b)  | Explain pathogenesis of Marek's disease.  | 3.0                 |
|    | c)  | What are the signs and lesions found in duck plague?                              | 3.0                 |
|    | d)  | What is prion? What is the molecular basis of pathogenesis of prion diseases?     | 2.0                 |
|    |     | Enlist some prion diseases.   |                     |
|    |     |   |                     |
| 2. | a)  | What are the changes produced by following virus inoculation in embryo: fowl      | 12                  |
|    |     | pox virus, infectious bronchitis virus, duck plague and avian encephalomyelitis   |                     |
| 50 |     | virus.  | e e<br>Santa e<br>E |
| _  | ,   |   |                     |
| 3. | a)  | Enlist different pathotype of Newcastle disease virus with example and what is    | 3.0                 |
|    | • ` | the basis of classification?  |                     |
|    | b)  | Illustrate the mean death time and intracerebral pathogenicity index of embryo in | 4.0                 |
|    |     | case of Newcastle disease virus   |                     |
|    | c)  | What are the polypeptides found in NDV and mention their role?                    | 5.0                 |
| 4. | a)  | How many segments are found in case of avian influenza virus? Explain the role    | 5.0                 |
|    |     | of segments 9, 2 and 3 in avian influenza virus.                                  |                     |
|    | b)  | Explain the criteria of OIE in determining HPAIV.                                 | 4.0                 |
|    | c)  | Differentiate between Orthomyxovirus and Paramyxovirus.                           | 3.0                 |
|    |     | SECTION-B   | 2<br>2<br>3 a       |
| 5. | a)  | Describe different effect of viral infections in the host cells.                  | 4.0                 |
| 27 | b)  | Describe the viral replication process.   | 7.0                 |
|    |     |   |                     |
| 6. | a)  | Classify the strains of infectious bursal disease virus.                          | 3.0                 |
|    | b)  | Enlist viral diseases of animals having public health significance.               | 4.0                 |
|    | c)  | Describe the diagnostic procedure of avian influenza.                             | 5.0                 |
| 7. | a)  | Enlist viral diseases of poultry with their family, name, symmetry, sense, genome | 12.0                |
|    |     | (DNA/RNA), presence of envelop and site of replication.                           | 12.0                |
| 8. | a)  | Mention the serotypes of FMD virus.   | 2.0                 |
|    | b)  | Briefly explain the clinical signs seen in FMD.                                   | 4.0                 |
| 9  | c)  | How will you prevent and control Newcastle disease in poultry?                    | 4.0                 |
|    | d)  | Enlist viral diseases of dog and cat.   | 2.0                 |

# DVM 3<sup>rd</sup> Year 1<sup>st</sup> Semester Final Examination-2023

Course Title: Systemic Pathology Course Code: SPT-301 (T) Full Marks: 70, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer five (5) questions from each section. Use separate answer script for each section. Fractions of the questions are encouraged to answer together.)

| 1. a) Describe the pathology of stomatitis in domestic animals. b) What do you understand by ranula and salivary mucocele?  a) Write down the pathogenesis of white muscle disease. b) Differentiate rickets from osteomalacia. Enlist the pathology of rickets in calves. c) What do you understand by fibrous osteodystrophy?  3. a) Describe morphologic classification of anemia with examples. b) Write a short note on splenomegaly. b) Briefly describe different stages of pneumonia. c) What is fetalization and cornification of lungs?  5. a) What is fetalization and cornification of follicular, luteinized and cystic corpora lutea cysts in cows. c) Explain why uterus becomes more susceptible to infections during luteal phage.  6. Write short notes on any two (2) of the following. i) Developmental anomalies of reproductive system ii) Nutmeg liver iii) Traumatic reticulo-pericaditis  7. a) Define bloat and vagus indigestion. b) Write down the common causes and consequences of choke in animals. c) Suppose a mature cow is suddenly died with the history of ingesting of a large volume of cooked rice and rice gruel. What are the probable causes of death and what would be the necropsy findings in this cow?  8. a) Suppose a horse died after exercising in morning following holidays with a history of providing full work ration. What is the probable cause of death and what gross and microscopic lesions you might expect during necropsy and examination of histopathological slides prepared from the affected tissue? b) Write down the pathology of solar dermatitis and humpsore. c) Enlist five pathological conditions of joints. d) How do you diagnose toxic hepatitis microscopically? 10. a) Enlist the etiologies of encephalitis. b) What is volvulus and intussusception? c) Write down the pathogenesis and pathology of simple goiter.  11. a) What is Pyelonephritis? Which breed of cat has a higher prevalence of polycystic kidney disease? b) Write down the microscopic lesions of interstitial nephritis. c) Describe briefly the predisposing factors |    |             | 1                  | SECTION-A  |          |
|--|----|-------------|--------------------|--|----------|
| 2. a) Write down the pathogenesis of white muscle disease. b) Differentiate rickets from osteomalacia. Enlist the pathology of rickets in calves. c) What do you understand by fibrous osteodystrophy?  3. a) Describe morphologic classification of anemia with examples. b) Write a short note on splenomegaly.  4. a) How will you differentiate bovine nasal granuloma from nasal polyp? 2. b) Briefly describe different stages of pneumonia. c) What is fetalization and cornification of lungs? 2. c) What is fetalization and cornification of lungs? 2. d) Write down the pathogenesis of formation of follicular, luteinized and cystic corpora lutea cysts in cows. c) Explain why uterus becomes more susceptible to infections during luteal phage. 2. d) Write short notes on any two (2) of the following. d) Developmental anomalies of reproductive system ii) Nutmeg liver iii) Traumatic reticulo-pericaditis  SECTION-B  7. a) Define bloat and vagus indigestion. b) Write down the common causes and consequences of choke in animals. c) Suppose a mature cow is suddenly died with the history of ingesting of a large volume of cooked rice and rice gruel. What are the probable causes of death and what would be the necropsy findings in this cow?  8. a) Suppose a horse died after exercising in morning following holidays with a history of providing full work ration. What is the probable cause of death and what gross and microscopic lesions you might expect during necropsy and examination of histopathological slides prepared from the affected tissue? b) Write down the pathology of solar dermatitis and humpsore. c) Enlist five pathological conditions of joints.  9. a) What is volvulus and insussusception? b) Define and classify cirrhosis on the basis of cause. c) Write down the types of gastritis and enteritis. d) How do you diagnose toxic hepatitis microscopically? 10. a) Enlist the etiologies of encephalitis. b) What do you understand by 'Gitter cell' and 'Wallerian degeneration'? c) Write down the microscopic lesions of interstitial nephritis. c |    | 1.          | a)                 | Describe the pathology of stomatitis in domestic animals.                              | 4        |
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| d) How do you diagnose toxic hepatitis microscopically?  10. a) Enlist the etiologies of encephalitis.     b) What do you understand by 'Gitter cell' and 'Wallerian degeneration'?     c) Write down the pathogenesis and pathology of simple goiter.  11. a) What is Pyelonephritis? Which breed of cat has a higher prevalence of polycystic kidney disease?     b) Write down the microscopic lesions of interstitial nephritis.     c) Describe briefly the predisposing factors that facilitate urolithiasis.  12. a) Define abortion, stillbirth, phimosis and paraphimosis.     b) Enlist infectious diseases that cause abortion and stillbirth in animals.   |    |             | b)                 |  | 2        |
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| b) Write down the microscopic lesions of interstitial nephritis. c) Describe briefly the predisposing factors that facilitate urolithiasis.  12. a) Define abortion, stillbirth, phimosis and paraphimosis. b) Enlist infectious diseases that cause abortion and stillbirth in animals.   |    | 11          | a)                 | What is Dyalonanhritia? Which broad of and beautiful 1 c 1                             |          |
| b) Write down the microscopic lesions of interstitial nephritis. c) Describe briefly the predisposing factors that facilitate urolithiasis.  12. a) Define abortion, stillbirth, phimosis and paraphimosis. b) Enlist infectious diseases that cause abortion and stillbirth in animals.  2 2 3  |    |             | a)                 | kidney disease?  | 2        |
| c) Describe briefly the predisposing factors that facilitate urolithiasis.  3  12. a) Define abortion, stillbirth, phimosis and paraphimosis.  b) Enlist infectious diseases that cause abortion and stillbirth in animals.  |    | 7.v<br>.v.  | b)                 |  | 2        |
| <ul> <li>12. a) Define abortion, stillbirth, phimosis and paraphimosis.</li> <li>b) Enlist infectious diseases that cause abortion and stillbirth in animals.</li> </ul>   |    |             | (                  | Describe briefly the predisposing factors that facilitate urolithiasis                 | 2        |
| b) Enlist infectious diseases that cause abortion and stillbirth in animals.   |    |             | 17 ACT 10          |  | <i>3</i> |
| b) Enlist infectious diseases that cause abortion and stillbirth in animals.   | 7  | 12.         |                    | Define abortion, stillbirth, phimosis and paraphimosis.                                | 2        |
| c) Why does retention of placenta occur commonly in brucellosis?   |    |             |                    | Enlist infectious diseases that cause abortion and stillbirth in animals.              | 2        |
| and the contract which was a second of the contract of the con |    | 1 4         | c)                 | wny does retention of placenta occur commonly in brucellosis?                          | 3        |

# Chattogram Veterinary and Animal Sciences University DVM 3<sup>rd</sup> Year 1<sup>st</sup> Semester Final Examination-2023 Course Title: Fundamental of Clinical Medicine (Theory)

Course Code: FCM-301 (T) Full Marks: 35, Time: 2 Hours

(Figures in the right margin indicate full marks. Answer three (3) questions from each section where question number 1 is compulsory. Use separate answer script for each section. Fractions of the questions must be answered together.)

|          |       | SECTION-A  |         |
|----------|-------|--|---------|
| 1.       | a)    | Define medicine, clinical medicine, presenting sign and physical sign.   | 2       |
| 18<br>20 | b)    | Classify prognosis. Write down the findings you may find in palpation and percussion of an organ.  | 1+2=3   |
| 2.       | a)    | Differentiate between pleurisy and pneumonia. Describe the principles of   | 1.0.0   |
|          | ω)    | diagnosis.   | 1+2=3   |
|          | b)    | Briefly explain the clinical and paraclinical examination of rumen and reticulum   | 3       |
|          |       | of an animal.  |         |
| 3.       | a)    | Enlist various routes of drug administration.  | 1       |
|          | b)    | Classify disease according to genesis and clinical manifestation.  | 3       |
|          | c)    | What are the normal ranges of vital signs of cattle, goat, horse & dog?  | 2       |
| 1        | ۵)    | Discover the clinical and it   |         |
| 7.       | a)    | Discuss the clinical examinations you can perform in the head region of an animal.   | 3       |
|          | b)    | Briefly describe the diagnostic procedures of ascites through physical examination.  | 3       |
|          |       |  |         |
|          |       |  |         |
|          |       | SECTION-B  |         |
| 5.       | a)    | Define demeanour. Enlist different demeanour in animals with appropriate example of disease.   | 0.5+2.5 |
| 3<br>3   | b)    | Define ballottement. Note down the examination procedures of eye in cattle.  | 1+2=3   |
| 6.       | a)    | What do you mean by vascular permeability, bleeding time and clotting time? How would you detect them?   | 3       |
|          | b)    | Define & classify treatment. Write down the general principles of treatment of an animal.  | 1+2=3   |
| 7.       | a)    | Define & enlist various types of paracentesis. Briefly describe  | 1+2=3   |
|          |       | subcutaneocentesis with interpretation of different types of fluid you may find in this procedure.   |         |
|          | b)    | Define and classify reflex. Illustrate the clinical signs and measurement procedures of degree of dehydration in different species.  | 1+2=3   |
| 8.       | Write | short notes on (any three):  | 2.0.    |
|          |       | The state of the s |         |
|          | a)    | Sending samples in laboratory b) Tracheal percussion   | 3×2=6   |

# Chattogram Veterinary and Animal Sciences University DVM 3<sup>rd</sup> Year 1<sup>st</sup> Semester Final Examination-2023

Course Title: Veterinary Entomology Course Code: VEN-301 (T)

Full Marks: 35, Time: 2 Hours

(Figures in the right margin indicate full marks. Answer three (3) questions from each section where question number 1 is compulsory. Use separate answer script for each section. Fractions of the questions are encouraged to answer together.)

| 01                | uic q      | juestions are encouraged to answer together.)                                      |                    |
|-------------------|------------|--|--------------------|
|                   | 66 ***<br> | SECTION-A  |                    |
| 1.                | a)         | Define 'Veterinary Entomology'. Mention the significance of 'Veterinary            | 3                  |
|                   |            | Entomology' for better animal health.  |                    |
| 8                 | b)         | Classify 'Diptera' with examples.  | . 2                |
|                   | ,          |  |                    |
| 2.                | a)         | Differentiate the features of 'soft tick' and 'hard tick' with examples.           | 3                  |
|                   | b)         | Discuss the general life cycle of 1, 2 and 3 host tick with examples.              | 3                  |
|                   | 20         |  |                    |
| 3.                | a)         | Briefly discuss the life cycle and pathogenic significance of 'horseflies' in      | 3                  |
|                   | . 1        | animals.   |                    |
|                   | b)         | Write down the scientific name of vector(s) of the following diseases/conditions.  | $0.5 \times 6 = 3$ |
|                   | e h        | i) Dengue ii) Chandipura virus disease iii) Habronemiasis                          |                    |
| 2                 |            | iv) Dipylidiasis v) Sleeping sickness vi) Bovine onchocerciasis                    |                    |
|                   |            | 777 ' 1  | 2 2 6              |
| 4.                |            | Write short note on any two (2) of the following.                                  | $3\times2=6$       |
|                   |            | i) Flea allergy dermatitis in pets   |                    |
|                   |            | ii) Scabies in animals   |                    |
|                   | 50<br>20   | iii) Warble fly infestation in cattle  |                    |
|                   |            |  |                    |
| 200<br>200<br>200 |            | SECTION-B  | a                  |
|                   |            | SECTION-D  |                    |
| 5.                | a)         | What are the possible methods of disease transmission by an arthropod vector?      | 3                  |
|                   | ,          | How does the salivary secretion of a tick facilitate blood sucking activities on a | 3                  |
|                   | ,          | host?  |                    |
|                   |            |  | 8                  |
| 6.                | a) -       | Write down the vector importance of the following arthropods.                      | $0.5 \times 6 = 3$ |
| . 3               |            | i) Hyalomma truncatum ii) Culex pipens iii) Xenopsylla cheopis                     | * 5 × ×            |
| ř                 |            | iv) Culicoides spp v) Tabanus striatus vi) Haematopinus suis                       |                    |
|                   | b)         | Briefly describe the life cycle and pathogenic significance of 'Gasterophilus      | 3                  |
| w 4               |            | intestinalis infestation' in a horse.  |                    |
|                   | 8 4 4      |  |                    |
| 7.                | a)         | How will you morphologically identify the following arthropods in a clinical       | $0.5 \times 6 = 3$ |
|                   |            | parasitology laboratory?   |                    |
|                   | 10 5 8     | i) Knemidocoptes mutans ii) Boophilus annularis iii) Tabanus rubidus               |                    |
|                   |            | iv) Lipeurus caponis v) Phlebotomus argentipes vi) Pulex irritans                  |                    |
| * 3               | b)         | 'Brachyceran' are more efficient mechanical vector than 'Nematoceran'-justify.     | 3                  |
| 8.                | a)         | Briefly describe the bionomics of 'flea' and 'sandfly' in Bangladesh.              | 2                  |
| J.                | ,          | Write down the management, control and prevention of myiasis in a calf.            | 2                  |
|                   | ,-,        | and management, conduct and prevention of mylasis in a call.                       | 3                  |

# Chattogram Veterinary and Animal Sciences University DVM 3<sup>rd</sup> Year 1<sup>st</sup> Semester Final Examination-2023

Course Title: Breeder and Hatchery Management

Course Code: BHM-301(T) Full Marks: 35, Time: 2 Hours

(Figures in the right margin indicate full marks. Answer three (3) questions from each section where question number one (1) and five (5) are compulsory. Use separate answer script for each section. Fractions of the questions must be answered together.)

| 1. | a). | What is hatchery supply flock and elite line? Mention the qualitative and quantitative traits of elite or pure line chicken. | 4.0 |
|----|-----|--|-----|
|    | b). | List ten breeder hatcheries of chicken available in Bangladesh.  | 2.0 |
| 2. | a). | Write the pre-requisites of managing breeder flock under environmental control house.  | 3.0 |
|    | b). | Differentiate broiler parent stock from commercial layer stock.  | 3.0 |
| 3. | a). | What is spiking and SSF? Mention the ideal ratio of male and female and their mixing procedure in broiler parent stock farm. | 3.0 |
|    | b). | What is fertility? Mention how would you increase the fertility of a breeder flock.  | 3.0 |
| 4. | a). | What is broodiness? Write the procedure of selecting broody hen for hatching egg.  | 3.0 |
|    | b). | Briefly discuss a breeding policy for the improvement of our local chicken breed.  SECTION-B                                 | 3.0 |
| 5. | a). | How would you measure uniformity in parent stock? Write the outcomes of good or bad uniformity in laying flock.              | 3.0 |
|    | b). | List the factors that affect the uniformity of breeder flock.  | 2.0 |
| 6. | a). | Discuss the feeding system of layer parent stock.  | 3.0 |
|    | b). | List the major nutrients required in formulation of layer ration.  | 3.0 |
| 7. | a). | Give the names of parents of a cross-bred progeny.   | 2.0 |
|    | b). | Write the differences in egg production performances among broiler breeder, layer breeder and strain breeder.                | 3.0 |
|    | c). | What is the production differences between breeder stock and commercial strain?  | 1.0 |
| 8. | a). | Write the essential requirements of incubation and hatch of an egg.  | 3.5 |
|    | b). | Give the formula in determining fertility and hatchability.  | 2.5 |

# Chattogram Veterinary and Animal Sciences University DVM 3<sup>rd</sup> Year 1<sup>st</sup> Semester Final Examination-2023

Course Title: Pharmacology and Therapeutics Course Code: PHT-301 (T)

Full Marks: 70, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer three (3) questions from each section where question number 1 and 5 are compulsory. Use separate answer script for each section. Fractions of the questions are encouraged to answer together.)

|          | × %        | SECTION-A   |
|----------|------------|---|
| 1.       | a)         | Classify antibiotics according to their mode of action.   |
|          | b)         | Describe the different mechanism of developing antimicrobial resistance against common pathogen in veterinary medicine.   |
|          | c)         | Define bacteriostatic and bactericidal antibiotics.   |
|          | d)         | Define therapeutics, therapy and therapeutic triangle.  |
| 2.       | a)         | Mention the antibacterial spectrum of tetracycline.   |
|          | b)         | Describe the side effects of cephalosporin in dogs and small animals.   |
|          | c)         | Aminoglycosides exert antibacterial action by irreversible binding to one or more receptors protein on the 30S subunit of the bacterial ribosome and thereby interfering with mRNA translation process. Mention the ways of these antibacterial action.   |
| 3.       | a)         | Enlist some precautionary measures that you should follow during sulfur drug administration. Write down the mode of action, indication and contraindication of sulfur drugs.  |
|          | b)         | Point out the common properties of macrolides. Write down the mode of action, pharmacokinetics and adverse effects of macrolides.   |
|          | c)         | Mention five NSAID. Write down the mode of action of one NSAID which is safe in pregnancy.  |
| 20       | d)         | Differentiate phytobiotics with herbal drugs.   |
| 4.       | a)         | Classify endocrine drug. Mention the endocrine drug that are used for repeat breeder cow and cystic ovarian disease with specific dosage.   |
|          | b)         | What are the therapeutic indications of progestins and thyroxin in cattle and dog, respectively?  How will you use Fartagyl and Receptal for reproductive abnormalities in cattle?  |
| 5        |            | SECTION-B   |
| 5.       | a)         | Classify antineoplastic drugs with examples.  |
| •        | b)         | Do you know about AWaRe? Why Chloramphenicol and nitrofurantoin are detrimental for human health?   |
|          | c)         | Describe the absorption, distribution and excretion pathways along with biotransformation mechanism of digoxin.   |
|          | d)         | Suppose, A female goat of 2 years old was admitted to SAQTVH with the history of anorexia. After clinical examination, the duty doctor confirmed this goat was suffering from hepatitis. Mention two antibiotics that are not suitable for the patient with specific reason.  |
| 6.       | 2)         | Mention two anticoctodal drugg that are commonly used in smarty and 6-11 standards.   |
| <b>.</b> | a)<br>b)   | Mention two anticestodal drugs that are commonly used in empty and full stomach, respectively.  Which antihistaminic drugs are commonly used in veterinary practices? Mention their generic name, trade name, dosage and indications.   |
|          | c)         | Classify drugs that act against roundworm infestation.  |
|          | d)         | Describe the pharmacodynamic of albendazole against ascarids and hookworm infection in ruminants.   |
| 7.       | a)         | Classify penicillin based on source, route of administration, resistant to hydrolyzing enzyme and resistant to  |
| 5 V      | <b>L</b> ) | acids.  |
|          | b)         | Define probiotic, antibiotic and prebiotic.  What is the impact of rapid introveness injection of constant in the constant of |
|          | d)         | What is the impact of rapid intravenous injection of enrofloxacin in horses?  Which antibiotics inhibit topoisomerases enzyme? Mention the pharmacokinetic interaction of this  |
|          | 4)         | which and oldes millor topolsomerases enzyme? Wendon the pharmacokinetic interaction of this  |

Why should you never consider paracetamol to be prescribed in cat? Briefly discuss about it.

effective topical and systematic drugs with trade name and dosage.

Enlist some properties of ideal antiseptics and disinfectants.

Briefly describe the mode of action, dose, indications and contraindications of piperazine citrate in calf.

Topical and systematic drugs are commonly used for ectoparasitic infection. Mention at least two highly

antibiotic.

8.

b)

d)