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Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2010
Subject: Fodder Production I&II(Theory)
Course Code: FPR-102
Full Marks: 70, Time: 3 Hours

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

Section-A

1. (a) What do you mean by feed ,fodder and forage? 2
(b) Write down the characteristics and qualities of legume fodder. Mention five legume and five non-legume fodder with their scientific name . 5
(c) Mention the possible ways /Methods of fodder production in Bangladesh. 4
2. (a) Define soil acidity and soil salinity. Briefly describe the causes of increasing soil acidity. 5
(b) Mention the composition of soil component. 5
(c) What is weed? Write down the name of five common weed. 2
3. (a) What is hay? Write down the procedure of hay making from cowpea. 6
(b) How can you increase the nutritive value of hay? 3
(c) Write down the nutritive value of three common legume fodders. 3
4. (a) Describe briefly the cultivation procedure of Napier grass. 6
(b) Cite the fertilizer doses for cultivation of Cowpea, Maize and German grass. 3
(c) What type of fertilizer is more important for fodder cultivation and why? 3

Section-B

5. (a) What do you mean by continuous and zero grazing? 2
(b) Discuss brief about the problem poses in saline soil and acid sulphate soil and give their possible remedy to reduce it. 5
(c) Write down the morphology, fertilizer dose and nutritive value of Jumbo and Berseem fodder. 4
6. (a) Briefly discuss about the composition and nutritive value of forage /fodder. 6
(b) Mention the time and method of sowing, fertilizer dose, irrigation system and harvesting time of Para and Guinea fodder. 6
7. (a) What do you mean by irrigation and why irrigation is necessary for fodder production in Bangladesh. 5
(b) Indicate the name of different methods of irrigation. Discuss about the two methods of surface irrigation which are suitable for fodder cultivation. 5
(c) Write down the objectives of drainage. 2
8. Write short notes from the followings (any three) 4x3=12
 - i) Ipil-ipil fodder production
 - ii) Brahmaputra alluvial and Teesta tract
 - iii) Role of Molasses in silage making
 - iv) Soil humus.

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Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2010
Subject: Histology and Embryology (Theory)
Course Code: VHE-102
Full Marks: 70, Time: 3 Hours

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

Section-A

1. (a) Briefly describe the histology of tongue of ox with neat diagram. 5
(b) Draw and label the histological structure of sub-lingual salivary gland. 2
2. (a) Give the histological picture of fore stomach of ruminant. 4
(b) Compare histologically between bronchus and bronchiole with their diagrams. 3
3. (a) Describe briefly the histology of liver lobule with diagrams. 5
(b) Name the extra billiary passages. 2
4. (a) Briefly describe the histology of testis of bull with labelled diagram. 4
(b) Define juxtaglomerular apparatus with its histological diagram. 3
5. (a) Define placenta, classify placenta histologically with examples. 5
(b) How neural tube is formed? Give the derivatives of neural crest cells. 2
6. (a) Define skin. Describe the histological structures of dermis of skin. 5
(b) Draw and label the cross-section of a nerve trunk. 2

Section-B

7. (a) Give the histology of heart wall. Compare between elastic artery and muscular artery in a tabular form. 5
(b) Give the picture of splenic circulation. 2
8. (a) Draw and label the histological structures of oesophagus with brief description. 5
(b) Draw and label the pancreatic islet showing different types of cells. 2
9. (a) Briefly describe the histology of urinary bladder of cattle with diagram. 4
(b) List separately the histological structures of cortex and medulla of kidney of ox. 3
10. (a) Draw and label the histological layers of cerebellum. 3
(b) Describe in short the histology of cornea with diagram. 4
11. (a) Differentiate histologically among the different stages of uterus in a tabular form. 5
(b) Briefly describe the histology of vagina of goat with diagram. 2
12. (a) Give the histological structures of Brunner's gland with its function. 2
(b) Draw and label the histological differences among the lymphnode, tonsil and thymus in a tabular form 5

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Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2010
Subject: Biostatistics-II (Theory)
Course Code: BST-102
Full Marks: 55, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer any **THREE** questions from each section. Question no. 5 (Five) is compulsory. Use separate answer scripts for each section.)

Section-A

1. a) What is regression co-efficient? State some of its important properties. 6.0
 b) The following data give the ages and weights of 7 no. of chicks of a poultry farm:

Age (in day) :	3	6	8	9	11	12	13
Weight (in Kg) :	0.15	0.20	0.25	0.31	0.38	0.42	0.50

 - i. Fit a regression line of weight on age. 3.0
 - ii. Estimate the weight of a chick whose age is 16 days. 3.0

2. a) Define null and alternative hypothesis. What do you mean by level of significance and power of a test? 4.0
 b) What are the important test statistics? How can you test the specific value of a population mean when the population variance is known? 4.0
 c) What happens if the population variance is unknown? 1.0

3. a) Define experimental unit, treatment, block and yield with example. 3.0
 b) Describe the layout and analysis of variance of a completely randomized design. 6.0

4. a) How the components of a time series data are related mathematically? 2.0
 b) Discuss the trend and irregular variation of a time series. Write the important methods of measuring trend of a time series. 5.0
 c) Discuss semi intensive average method. 2.0

Section-B

5. a) What is scatter diagram? How scatter diagrams are used to measure the different values of the correlation co-efficient. 4.0
 b) Define correlation coefficient. State some of its properties. 3.0
 c) Prove correlation coefficient is the geometric mean of regression coefficients. 3.0

6. a) Define chi-square test. Mention its application in hypothesis testing. 3.0
 b) What is test of goodness of fit? Write the conditions of validity of chi-square test. 3.0
 c) How do you test the equality of two means when the observation occurs in the form of pairs? Explain with suitable example. 3.0

7. a) Define randomized block design. Write the advantages and disadvantages of randomized block design. 4.0
 b) Write the usual assumptions made in the analysis of the experiment of randomized block design. 3.0
 c) Why RBD is more efficient than CRD? 2.0

8. Write short notes on (any three) 3x3 9.0
 i. Co efficient of determination, $R^2 = 0.89$; ii. Seasonal variation of a time series;
 iii. Principles of experimental design; iv. Rank correlation co-efficient

Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2010
Subject: Animal Hygiene (Theory)
Course Code: AHY-102
Full Marks: 55, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer **THREE** questions from **Section A** and **THREE** questions from **Section B** of which question No. **5** is compulsory. Use separate answer scripts for each section)

Section-A

1. a) Define health and hygiene. What are the principal objectives of hygiene? 3
 b) How will you determine a healthy cow by examining external appearances or signs? 3
 c) Write down the methods for the administration of medicine incase of goat. 3

2. a) Describe different methods of animal transportation. What types of measure should you take during animal transportation? 5
 b) How arsenic problem has emerged in Bangladesh? 4

3. a) Write down the objectives of disposal of animal waste. 2
 b) Give a brief description on septic tank and cesspool. 5
 c) Mention the air space requirements for different domestic animals. 2

4. a) What is soil? Write down the composition of soil. 3
 b) "All living beings move on soil"- Explain. 3
 c) Briefly describe sanitary improvement of soil in a farmyard. 3

Section-B

5. a) Define the following terms: 4
 Relative humidity, Fallout, Droplet, Humidity.
 b) Classify ventilation. Illustrate the most common type of ventilation practiced in our country. 3
 c) Describe green house effects. 3

6. a) State the ecological impact of acid rain. What are the measures that should be taken to prevent acid raining? 3
 b) Illustrate the mechanism of nitrogen cycle. 3
 c) What are the sources of natural water? Differentiate various types of spring. 3

7. a) Define fumigation. Discuss potassium permanganate method of fumigation? 3
 b) What is hardness of water? Describe the methods of water softening. 3
 c) What do you mean by isolation and quarantine? 3

8. a) Enlist the equipment used in artificial insemination. 2
 b) Enumerate the points considered for hygienic artificial insemination. 3
 c) Define sanitation. State the procedures for collection and storage of solid manure. 4

Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2010
Subject: Animal Science and Livestock Management-II (Theory)
Course Code: ASM-102
Full Marks: 70, Time: 3 Hours 5

(Figures in the right margin indicate full marks. Answer any **THREE** questions from each section where question number **one & five** are compulsory. Use separate answer scripts for each section)

Section-A

1. (a) State the importance of dog, horse and swine. 3
(b) Describe following breeds (any four): 8
i) Hampshire, ii) American Landrace, iii) American Cream, iv) German Shepherd and
v) Belgian

2. (a) Mention the current livestock population statistics of Bangladesh indicating valid source. 4
(b) What shorts of care and management precautions should you ensure for an advanced pregnant cow? 6
(c) "Maternity box" – is it really an inevitable part of a modern commercial dairy farm? 2

3. (a) Draw and label a double row face in system stanchion barn for a 100 cow dairy herd indicating optimum space allocation. 7
(b) Why do you need to consider topography and soil type for dairy farming? 2
(c) How should you ensure bio-security in dairy farms? 3

4. (a) Thoroughly discuss the constraints of livestock production in Bangladesh. 8
(b) What are the prospects of dairy farming in Bangladesh? 4

Section-B

5. (a) "Egg is the most dynamic and unique food of the world"- Justify with example. 6
(b) Write down the chemical composition of meat, milk and egg in a tabular form. 5

6. (a) "Almost all the feed resources of the world could be substantially divided into five major categories"-explain with example. 10
(b) "Corn silage is neither roughage nor a concentrate"-why? 2

7. (a) List the feeds for dog and swine. 6
(b) Show the schematic diagram indicating biological partitioning of energy. 4
(c) Why ash has been ignored in calculation of TDN from livestock feeds? 2

8. Write short notes on (any six) : 12
(a) Total digestible organic nutrients (d) Brewery by-products
(b) Loose housing system (e) Abattoir wastes
(c) Feed additives (f) Milking par lour
(g) Single cell protein

Chattogram Veterinary and Animal Sciences University

DVM 1st year 1st Semester Final Examination 2019

Subject: Rural Sociology (Theory)

Course Title: RSA-101 (T)

Full Marks: 70, Time: 3 Hours



(Figures in the right margin indicate full marks. Answer any **four (4)** questions from each section, of which **question number 1 and 7** are compulsory. Use separate answer script for each section. Fractions of the questions must be answered together)

SECTION-A

- | | | | |
|----|----|--|---|
| 1. | a) | What do you mean by Social Stratification? | 2 |
| | b) | What are the types of social stratification? | 3 |
| | c) | Narrate the factors of human development. | 3 |
| 2. | a) | What do you mean by Institution? | 2 |
| | b) | Give the characteristics of institution. | 3 |
| | c) | Differentiate between society and community. | 4 |
| 3. | a) | What is social change? | 2 |
| | b) | Discuss the factors responsible for social change in Bangladesh. | 7 |
| 4. | a) | Define rural sociology. | 2 |
| | b) | Write down the advantages of society | 3 |
| | c) | Distinguish between Rural Sociology and Anthropology. | 4 |
| 5. | a) | What do you mean by mean social control? | 2 |
| | b) | Write the types of social control. | 3 |
| | c) | What is public opinion? What roles are played by the various agencies in raising public opinion? | 4 |
| 6. | a) | Define the concept of food chain. | 2 |
| | b) | Show that population in Bangladesh has crossed the limit of critical level of food chain | 7 |

SECTION B

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|-----|----|---|-----------|
| 7. | a) | What do you mean by Anthropology? What are the kinds of Anthropology? | 2+2
=4 |
| | b) | What are the types of kinship? | 4 |
| 8. | a) | What are the types of sociological methodology? | 3 |
| | b) | Write down the objectives of social survey. | 3 |
| | c) | What are the various types of social survey? | 3 |
| 9. | a) | Discuss the characteristics of culture. | 4 |
| | b) | Discuss the concept of cultural lag citing with example in context of Bangladesh. | 5 |
| 10. | a) | Discuss the common social problems in Bangladesh. | 4 |
| | b) | Give some suggestion for juvenile delinquency in slum area. | 5 |
| 11. | | Write short notes (any three) | 3×3
=9 |
| | a) | Social structure | |
| | b) | Personality | |
| | c) | Social value | |
| | d) | Social group | |

Chattogram Veterinary and Animal Sciences University

DVM 1st year 1st Semester Final Examination 2019

Subject: Animal Science (Theory)

Course Title: ANS-101 (T)

Full Marks: 70, Time: 3 Hours

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

SECTION-A

1. a) What do you mean by 'Livestock' and 'Animal Science'? Write down the importance of livestock in Bangladesh. 3.0
b) Mention the differential points between *Bos taurus* and *Bos indicus*. 3.0
c) Write down the zoological classification of common farm animals available in Bangladesh. 5.0
2. a) Clarify the breed. Briefly discuss the 'Holstein Friesian', 'Brown Swiss' and 'Ayrshire' breeds of cattle. 4.0
b) List the most famous seven (7) beef breeds of the world. Discuss the 'Beef master', 'Brahman' and 'Short horn' breeds of cattle. 4.0
c) Name at least seven (7) draft cattle breeds available in Bangladesh. Discuss the 'Gir', 'Kankrej' and 'Hallikar' breeds of cattle. 4.0
3. a) Define 'Farm', 'Manager' and 'Farm Management'. 3.0
b) What are the qualities of a good farm manager should have? 4.0
c) Discuss the origin, domestication and distribution of important farm animals. 5.0
4. a) What are the common vices of farm animals? Explain shortly. 3.0
b) Write down the constraints of sheep production in Bangladesh. 4.0
c) 'Black Bengal Goat- a promising goat genetic resource in Bangladesh' -Explain. Give a detail description of 'Jamnapari goat'. 5.0

SECTION B

5. Elaborate the following terms (any eleven): 11.0
 - i) Cryptorchid
 - ii) Dry off
 - iii) Gimmer
 - iv) Hinny
 - v) Free martin
 - vi) Steer
 - vii) Veal
 - viii) Wether
 - ix) Mule
 - x) Roughage
 - xi) Gelding
 - xii) Puberty
 - xiii) Flock
 - xiv) Poultry
6. a) Classify the housing system for dairy cattle. What factors should you consider most important for selecting site for a commercial dairy farm? 3.0
b) Draw and label a double row face out system stanchion barn for 100-cattle dairy farm. 4.0
c) What sort of housing system are the best for growing heifer? Compare and contrast loose housing system with stanchion barn. 5.0
7. a) Which breeds of goat are most suitable for commercial dairy goat farming? Discuss the 'Saanen' and 'Toggenburg' breeds of goat. 4.0
b) What are the prospect and potentials of goat farming in Bangladesh? 4.0
c) List the slaughter house by-products and mention their practical utilities. 4.0
8. Write short notes on (any four) 12.0
 - i) Greenhouse effects.
 - ii) Constraints of livestock production.
 - iii) Total digestible nutrients (TDN).
 - iv) Role of livestock on national economy.
 - v) Swamp buffalo vs river buffalo.

Chittagong Veterinary and Animal Sciences University
DVM 1st Year 1st Semester Final Examination-2017
Course Title: Animal Science (Theory)
Course Code: ASM-101
Full Marks: 70, Time: 3 Hours

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

Section-A

1. a) Elaborate the following terms: 4.0
(i) Mule (ii) Free martin (iii) Ration
(iv) Stable (v) Heifer (vi) Sire
(vii) Mare (viii) Mare (ix) Lamb
- b) Show the latest livestock and poultry population statistics and their contribution to GDP in Bangladesh. 3.0
- c) Describe the physical characteristics and production traits of Black Bengal goat. 4.0
2. a) Differentiate breed from type. Classify cattle breeds with example. 4.0
b) Briefly discuss three important cattle breeds. 4.0
c) Differentiate *bos taurus* from *bos indicus*. 4.0
3. a) Draw and label a double row face out system stanchion barn with measurements. 4.0
b) What are the different types of house usually found in an ideal sheep farm? 4.0
c) Discuss the criteria for selection of site for an ideal dairy farm. 4.0
4. a) Briefly discuss the daily routine for management works in a dairy farm. 4.0
b) What are duties and responsibilities of a livestock farm manager? 4.0
c) Briefly discuss different body condition scores in a dairy herd. 4.0

Section-B

5. a) Show the zoological classification of horse and dog. 3.0
b) Mention the characteristics of different families of farm animals. 4.0
c) Classify feedstuff with example. Differentiate roughage from concentrate. 4.0
6. a) Write down the importance of sheep and goat. Classify goat according to example. 4.0
b) Compare different body parts of cattle and horse. 4.0
c) Describe Saanen, Alpine and Beetal breeds of goat. 4.0
7. a) What are the common vices of farm animals? How should you overcome them? 4.0
b) Classify dog breeds. Briefly discuss the German Shepherd and Labrador Retriever breeds of dog. 4.0
c) Briefly discuss the American Landrace, Yorkshire and Poland China breeds of swine. 4.0
8. a) Write short notes (Any three) on: 3x4= 12.0
(i) Greenhouse effects on livestock production
(ii) Origin, domestication and distribution of farm animals
(iii) Red Chittagong cattle
(iv) Loose housing system