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Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2011
Course Title: Histology and Embryology - II (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 script for each section.)

Section-A

1. a) Briefly describe the histology of pars distalis of pituitary gland with neat diagram. 4
b) Draw and label the histological structures of parotid salivary gland. 3
2. a) Describe the cells of gastric gland of stomach with their secretory contents. 4
b) Briefly describe the histology of ileum with neat diagram. 3
3. a) Compare histologically between uterus and vagina. 4
b) What is corpus luteum, corpus albicans and cervix. 3
4. a) Briefly describe the histology of ductus deferens with neat diagram. 3
b) Draw and label a uriniferous tubule. 4
5. a) Draw and label the histological diagram of cornea. 4
b) What do you mean by reticulo-endothelial (RE) system? List the components and functions of it. 3
6. a) Compare histology of prostate gland and mammary gland in tabular form. 4
b) Briefly describe the hepatic portal system. 3

Section-B

7. a) Draw and label the histological structure of a lymphnode. 2
b) Give the brief histology of splenic pulp. 3
c) Give the histology of taste bud. 2
8. a) Define blood capillary. Classify it with examples. 4
b) Compare the histological structure of epicardium, endocardium and heart valve. 3
9. a) Give the histological differences among trachea, bronchus and bronchiole. 4
b) Give the histology of exocrine pancreas. 3
10. a) Classify ovarian follicles with their neat diagram. 5
b) Draw and label the histology of testes of a bull. 2
11. a) Define fetal membrane. List the structures of it. 3
b) Briefly describe the histology of a fallopian tube with neat diagram. 4
12. a) What is implantation? 1
b) Write the different types of implantation in mammals with examples. 2
c) Briefly describe the histology of cerebrum with neat diagram. 4

Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2011
Course Title: Animal Science and Livestock Management-II (Theory) ✓
Course Code: ASM -102
Full Marks: 70, Time: 3 Hours

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

Section-A

- | | | |
|----|---|---|
| 1. | a) List the most important slaughter house by-products in Bangladesh. | 3 |
| | b) Discuss the prospects and potentials of slaughter house by-products. | 8 |
| 2. | a) Classify important breeds of dog. | 2 |
| | b) Describe one livestock guarding and one toy breed of Dog. | 5 |
| | c) Write the characteristics of largest and smaller dog breed in the world. | 5 |
| 3. | a) Write down the chemical composition of meat, milk and egg. | 4 |
| | b) Discuss the food value of meat and egg. | 8 |
| 4. | a) Mention the origin, color, mature weight and litter size of four important swine breeds. | 8 |
| | b) Discuss the factors affecting the growth of pig. | 4 |

Section-B

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|----|--|---|
| 5. | a) Mention the use of horses in Bangladesh. | 2 |
| | b) Write the characteristics of any two horse breed using for racing purpose. | 6 |
| | c) Mention the required level of nutrition for horse. | 3 |
| 6. | a) Differentiate the feed additives from feed supplements with example. | 4 |
| | b) What are the precautions of feeding dog? | 4 |
| | c) Classify the livestock feed stuff with example. | 4 |
| 7. | a) Differentiate judging from selection. | 2 |
| | b) Which systems are suitable for rearing commercial broiler and scavenging ducks? | 3 |
| | c) Write down the chemical composition of rice straw, roadside grass, rice polish, wheat bran, soybean meal, protein concentrate and oyster shell. | 7 |
| 8. | a) Define Animal Science, Feed, Poultry Management, Livestock and Total Digestive organic Nutrient (TDN) | 4 |
| | b) Draw and label a double row face out system stanchion barn for 100 cow dairy farm. | 4 |
| | c) What factors would you like to consider before selecting site for dairy farm? | 4 |

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Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2011
Course Title: 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 where which question **1 and 5** are compulsory. Use separate answer script for each section.)

Section-A

1. a) What is annual and perennial fodder? 2
b) Write down the composition and Nutritive value of fodder/forage. 5
c) Give the specific name of the following fodder:- 4
i) German ii) Oat iii) Dewa iv) Lucerne v) Centro vi) Stylo vii) Guinea and
viii) Tucentry.
2. a) Mention the sowing time, seed rate, harvesting time and yield of Maize, Oat,
Cowpea, Berseem and Napier: 6
b) Briefly describe the cultivation procedure of German grass. 6
3. a) Define silage. Write down the requisites for making good silage. 5
b) Briefly describe the procedure of silage making by fodder crops. 5
c) What steps do you suggest for producing better silage from legume fodder? 2
4. a) Classify weed with example. 3
b) Discuss briefly how will you control weed from a fodder plot. 6
c) How losses of nutrients take place during hay making? 3

Section-B

5. a) What do you mean by pasture and stocking rate? 3
b) Briefly discuss the general grazing management practices of a pasture land. 6
c) Enlist the important pasture grasses. 2
6. a) Describe briefly the cultivation procedure of Jumbo fodder. 5
b) Write down the Nutritive value and use of Ipil-ipil fodder. 3
c) Discuss briefly the Teesta tract and Hill tract soil. 4
7. a) What do you mean by Soil P^H? Classify soil according to soil P^H. 4
b) Mention the causes of soil alkalinity. 4
c) Write down the name of five liming materials and indicate the importance of application
lime on the soil. 4
8. a) Write short notes on the following (any three)
i) Characteristics and remedy of Saline and Acid sulphate soil 4x3=12
ii) Guinea grass cultivation
iii) Furrow and Bed method of Irrigation
iv) Hay making.

(Figures in the right margin indicate full marks. Answer any **three** questions from each section where which question **5** is compulsory. Use separate answer script for each section.)

Section-A

1. a). Define Karl Pearson Correlation coefficient. Prove that, $-1 \leq r \leq 1$. 4
 b) What do you mean by Spearman Rank Correlation? When do we use it? The ranks of 5 5
 students in Anatomy and Histology are:

Anatomy	5	8	11	3	2	
Histology	9	2	3	4	11	

Calculate rank correlation co-efficient.

2. a) What is level of significance? What do you mean by Type I and type II error? 3
 b) Derive the formula to that the hypothesis of small samples with equal variance. 3
 c) 20 cows were fed each ration. From the first group 2 cows were culled because of illness. Which ration causes cows to produce more milk in lactation? 3

	Ration A	Ration B
Mean	5.5	6.8
Variance	0.206	0.379
Size	18	20

3. a) Define point and interval estimation with examples. What is power of a test? 3
 b) What is proportion? Define hypothesis. Test the difference between proportions of cows that returned to estrus after first insemination on two farms. Data are in the following Table: 6

Farm 1	Farm 2
$y_1 = 40$	$y_2 = 30$
$n_1 = 100$	$n_2 = 100$
$P_1 = 0.4$	$n_2 = 0.3$

Here, y_1 and y_2 are the number of cows and n_1 and n_2 are the total number of cows on farm 1 and 2 respectively.

4. a). Define experimental error, replication and precision. What are the important basic design? 2
 b) Discuss the principles of design of experiment. 4
 c) What is randomized block design? What are the advantages of a randomized block design over completely randomized design? 3

Section-B

5. a) Define simple linear regression with an example. What is scatter diagram? 2
 b) What are the model assumptions of simple linear regression? Estimates the parameters using least square method. 4
 c) Fit a regression line of weight on hearth girth of cows using the following: 4

Cow	1	2	3	4	5	6
Weight in Kg	641	633	651	666	688	686
Hearth girth in cm	214	215	216	217	217	221

6. a) Define Chi-square test. What is the simple random sampling? Compare stratified and cluster sampling. 4
 b) The expected proportions of white brown and pied rabbits in a population are 0.36, 0.48 and 0.16 respectively. In a sample of 400 rabbits there were 140 white, 240 brown and 20 pied. Are the proportions in that sample different than expected. 5

7. a) Define parameter and statistic. What do you mean by sampling distribution? Write the names of some sampling distributions. 3
 b) State some important uses of student's t distribution and chi-square distribution. 4
 c) Distinguish between standard deviation and standard error. 2

8. **Write Short Notes On (any three):** 3x3= 9
 i. Measurement of scales; ii. Stratified sampling; iii. Latin square design (LSD);
 iv. Central limit theorem.

Chittagong Veterinary and Animal Sciences University
DVM 1st Year 2nd Semester Final Examination, 2011
Course Title: Animal Hygiene (Theory)
Course Code: AHY-102
Full Marks: 55, Time: 3 Hours

(Figures in the right margin indicate full marks. Answer **THREE (3)** questions from Section A and **THREE (3)** questions from Section B of which question No. 5 is **compulsory**. Use separate answer script for each section.)

Section-A

1. a) Define health, hygiene and disease. 3
b) How will you determine sound health of a bull by examining external appearances or signs? 3
c) Write down the hygienic importance of a farm. 3
2. a) What are the hygienic requirements of drinking water? 2
b) Give a brief description of different types of impurities of water and their effects on animal health. 5
c) Mention the air space requirements for domestic animals. 2
3. a) Define and classify soil. What is the relation between soil and life? 5
b) What are the factors responsible for insanitary conditions of soil? 4
4. a) Write down the methods used for drug administration in animals. 4
b) How arsenic problem has emerged in Bangladesh? 5

Section-B

5. a) List the measures you should consider for the preservation and control of infectious diseases. 4
b) Write down the mechanism of methanogenesis? 3
c) What are the characteristics of an ideal disinfectant? 3
6. a) Suppose, you are the veterinary doctor of the Dhaka zoo. A deer died there after suffering from an infectious disease. How can you dispose the carcass of that deer? 4
b) What are the common methods to generate formaldehyde gas? 2
c) Enumerate different types and methods of disinfection. 3
7. a) Define disinfectant and antiseptic. 2
b) How do you collect and send a water sample to a laboratory for chemical and microbial tests? 4
c) What types of examination will you perform to determine the hygienic value of water? 3
8. a) What is ventilation? Write down the objectives of ventilation. 3
b) List different types of ventilation along with figures. 3
c) Name six soil borne diseases with the casual agents. 3

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