

KATHMANDU UNIVERSITY
End Semester Examination
September 2024

Marks Scored:

Level : B.Sc.

Year : I

Course : AGAN 111

Semester : II

Exam Roll No. :

Time: 30 mins.

F. M. : 10

Registration No.:

Date : 16 sep 2024

SECTION "A"
[10Q. × 0.5 = 5 marks]

Choose and encircle the most appropriate answer.

1. How does livestock contribute to rural economies?
a. By supporting Livelihood
b. By reducing food prices
c. By increasing companionship
d. By promoting technology adoption
2. Which livestock species is considering as "Black Gold" in Nepal?
a. Cattle
b. Goats
c. Poultry
d. Buffalo
3. The breed from Scotland is a hardy, medium-sized dairy cattle known for its beautiful red and white coat, producing 6,000 liters of milk per lactation with 3.9% butterfat, excelling on pasture.
a. Ayrshire
b. Jersey
c. Holstein
d. Brown Swiss
4. The buffalo breed from western Nepal's mid-hills has a black coat, horns are sword shaped directed towards the back of the body, produce avg 3.5 liters of milk daily with 6.5-7.5% fat.
a. Lime
b. Parkote
c. Gaddi
d. Murra
5. The indigenous sheep breed of high Himalayas Nepal above 2500 meters, make up 4% of Nepal's sheep population, produce carpet-quality wool, and average 26 kg in weight with white wool and variable head colors.
a. Changra
b. Bhynglung
c. Kage
d. Baruwal
6. Bacillus Bacterial Spores persist for years, infecting cattle, sheep, and goats through ingestion or wounds, leading to rapid death (2 hours) or within 48-96 hours, with symptoms including fever and convulsions.
a. Anthrax
b. Haemorrhagic Septicemia
c. Black Quarter
d. Foot and Mouth Disease
7. Which of the following is NOT a concern in direct livestock industry?
a. Zoonotic diseases
b. Antibiotic resistance
c. Decreasing price of animal origin cosmetic products
d. Livestock waste management
8. Which of the following is NOT a part of principle of animal husbandry practices?
a. Selection of breed and breeding management
b. Cost Effective feeding
c. Health care management and biosecurity
d. Recreational animal management

9. Porcine is a term relating to swine
 a. Cattle b. Buffalo c. Sheep/Goat d. Pig
10. Dimjo Chauri is the cross between
 a. Nak (female Yak) and hill cattle male b. Yak (Male) and hill cattle female
 c. Chauri and terai cattle d. None of above

SECTION "B"

[10Q. × 0.5 = 5 marks]

Fill in the blanks.

11. In the ideal case, it takes two kilograms of grain to produce one kilogram of chicken, _____ kilograms for one kilogram of pork, and seven kilograms for one kilogram of beef.
12. The ruminant stomach comprises the rumen (sac-like, folded for fermentation), reticulum (honeycomb-like for filtering and cud formation), omasum (multi-folded for water absorption), and _____ (glandular for enzymatic digestion).
13. _____ is an acute, highly contagious viral disease from the Morbillivirus in the Paramyxoviridae family primarily affects GOATS and is marked by fever, loss of appetite, stomatitis, gastroenteritis, and pneumonitis
14. _____ highly contagious viral disease caused by a complex DNA virus of the genus *Asfivirus* and *Asfarviridae* in SWINE,
15. One Health is an integrated, unifying approach that aims to sustainably balance and optimize the health of people, _____, and ecosystems.
16. Helminths are multicellular worms, including nematodes, cestodes, and _____ with varying body structures and life cycles.
17. About 65% of newly emerging diseases of world in human populations are considered as animal originated; those diseases are called _____ diseases are being jumped from animal population to humans and may vice versa.
18. Body condition scoring (BCS) is a system which characterize dairy animals in between 1-5 score; before Artificial Insemination (AI) in dairy animals the BCS should be within the range _____ to get higher Conception Rate (CR).
19. The Animal Welfare Directive 2016 has been issued by the Ministry of Livestock Development pursuing rule 22(A. of the Animal Health and Livestock Services Act 1999. Section 4 of Chapter 2 lists _____ freedoms as its main provisions.
20. The Bovidae comprise of cloven-hoofed, ruminant mammals that includes cattle, yaks, bison, buffalo, antelopes (including goat) whereas pigs belong to family _____.

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16 Sep 2024
SECTION "C"
[6Q. × 4 = 24 marks]

Attempt *ANY SIX* questions.

1. Compare Jersey with Ayrshire breeds of cattle in terms of origin, characteristics, and production parameters
2. Define *ANY FOUR* of the following terminologies
 - a. Doeling
 - b. Gilt
 - c. Free martin
 - d. Cryptorchids
 - e. Estrus
3. List out exotic breeds of sheep and compare Bhynglung with Baruwal indigenous breeds.
4. Write down common vaccination schedule of domestic animals and poultry.
5. Make a format of livestock record to ensure effective management and profitability in domestic animal.
6. Define biosecurity, how can effective biosecurity measures be implemented to prevent introduction and spread of diseases in livestock farm?
7. Describe care and management of pregnant dairy animal.

SECTION "D"
[2Q. × 8 = 16 marks]

Attempt *ANY TWO* questions.

8. Define One Health and discuss how, in your opinion, it can enhance the prevention and management of zoonotic diseases?
9. Enlist etiology, symptoms, diagnosis, treatment management, prevention & control of Marek's Disease (MD) of poultry.
10. Briefly describe current status, opportunities and challenges of animal husbandry business in Nepal.

