CENTRAL BHARAT SEVAK SAMAJ

NATIONAL DEVELOPMENT AGENCY, ESTABLISHED IN 1952 BY PLANNING COMMISSION, GOVT. OF INDIA

CENTRAL BOARD OF EXAMINATIONS

BSS NATIONAL VOCATIONAL EDUCATION MISSION

VE001-BSS DIPLOMA IN VETERINARY SCIENCES

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

VE001-01 COMMUNICATIVE ENGLISH AND COMPUTER FUNDAMENTALS

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Suresh is sitting _____ Ram and Gopal.
2) Computer is an _____ device
3) The 2nd hard disk of P.C. is called _____
4) A computer is an _____ device capable of executing instruction developed and stored in its memory
5) Recycle bin used for _____ (retrieve the deleted files)
6) _____ are where the text is typed
7) Monitor of a computer is a _____ device
8) _____ key is also used to select spelling command
9) To draw curved lines _____ is used
10) Below the menu bar _____ bar appears
11) Computers can only understand _____ language
12) Rama was _____ ideal student
13) The servant _____ (wait) on me all day.
14) _____ apple a day keeps the doctor away.
15) Have mercy _____ the poor

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define what is demonstrative pronoun?
2) Define adjectives?
3) Define the adjectives words?
4) Define interjection?
5) What is preposition?
6) Define adverbs of degrees?
7) What are the types of data
8) Write short notes on Super Computer
9) Adjectives
10) Decimal
11) Insert column and insert chart
12) What is RAM?
13) Write about characteritics of computer?
14) What are Question tags?
15) Define keyboard?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Explain few sentences using "behind, beneath"?
2) Explain few sentences using "may, among, before"?
3) Explain telephone ediquette?
4) Key board
5) What are the difference between i. COPY, Xcopy, Diskcopy and Move.
6) Write short notes on 'macro'
7) Calculator
8) Curve Tool

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Write a letter to your father asking permission join the N.C.C?
2) Write a letter to the station master requesting him to reserve two coaches for your school excursion party
3) Esplain details of Accessories in windows?
4) Functions of Word Processing?
5) Write a mailmerge to invite your friend in your family function what are the procedure of the merge?.

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VE001-BSS DIPLOMA IN VETERINARY SCIENCES

TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

VE001-11 LIVESTOCK PRODUCTION MANAGEMENT

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) Increase or decrease rate of _____ directly indicates the respiratory system in development.
2) The affected muscle becomes _____ Coloured.
3) Veal is the calves younger than _____of age sold for slaughter
4) The culled animals carry lower values and a separate list is made for such called animals and it is known as _____.
5) _____ in early stage should be lead with halter to make them docile.
6) The potential _____ from an individual cow is determined genetically, as are protein and lactose levels.
7) Lambing percentage: _____ to the number of ewes put to a ram (or) Number of ewes lambed to the number of ewes covered.
8) _____ with wood and reinforced concrete bars provide a required gap between them and are used in house for intensive animal production.
9) Supplementary feeding and good clean pasture for growing weaners should be _____.
10) Breeding ewe of indigenous breeds should be _____ depending upon their body condition.
11) The major breeds of _____ and _____ of importance for milk
12) _____ is the mating of animals of different breeds
13) _____ examination is generally reserved for borderline samples.
14) The definition of _____ is often am bingnos
15) _____ is preserved in liquid nitrogen at 196°c

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) why is it essential for the agricultural industry?
2) Why is it important for livestock producers to be aware of the gestation period of their animals?
3) Define Livestock Production?
4) What is Crossbreeding?
5) Advantages and disadvantages of crossbreeding?
6) Provide a concise definition of Animal Husbandry and its key components?
7) Define Artificial Insemination?
8) why is it a critical factor in management?
9) The process of Silage production and its role in animal nutrition?
10) What is Vaccination, and how does it contribute to disease prevention in livestock?
11) Rotational Grazing?
12) What does Castration mean in the context of livestock?
13) What is Crossbreeding?
14) Define Biosecurity in the context of livestock farms?
15) Feeding?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) What is diseases of liver?
2) Describe viral diseases in parts of foot and mouth?Explain their features?
3) Explain gastritis with their different features?
4) Discuss the key components and functions of a Feedlot?
5) Discuss the factors influencing the Gestation Period in different livestock species and its implications for management decisions?
6) Provide a detailed explanation of Rotational Grazing, including its benefits for pasture health, animal nutrition, and overall farm efficiency?
7) Evaluate the challenges and opportunities in designing and implementing a Vaccination program for livestock?
8) Explain the critical factors involved in managing the Calving process to ensure the health of both the dam and the calf, covering pre-calving to post-calving practices?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Examine the impact of Climate Change on livestock farming, discussing potential challenges and adaptation strategies for maintaining productivity and resilience in the face of changing environmental conditions?
2) Provide a detailed analysis of the Nutritional Composition and Quality of Silage, discussing factors influencing nutrient content, methods of preservation, and the impact on animal health and performance?
3) Discuss the principles of Regenerative Grazing, covering holistic management practices that aim to improve soil health, biodiversity, and carbon sequestration while maintaining productive livestock systems?
4) Discuss the challenges and opportunities of Transitioning to Organic Livestock Production, covering certification requirements, management practices, and the potential benefits for both the environment and animal welfare?
5) Delivery of improved genetics and breeding service to foramens. Write long answers?

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VE001-BSS DIPLOMA IN VETERINARY SCIENCES

TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

VE001-12 PRIMARY TREATMENT OF ANIMAL DISEASES

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ play a key role in managing internal and external parasites in various species of animals.
2) Deworming protocols are employed to control and prevent _____ caused by internal worms
3) Therapeutic vaccination is utilized to manage and treat specific diseases in animals, enhancing the _____.
4) Chemoprophylaxis involves the _____ to prevent specific diseases in animals, often applied in targeted disease control programs.
5) Diagnostic necropsy, or post-mortem examination, is a crucial tool in determining the _____ in animals and investigating disease outbreaks.
6) Enzyme replacement therapy is employed to manage _____in animals by supplying functional enzymes that the body lacks.
7) _____ plays a vital role in managing shock and dehydration in animals, restoring fluid balance and supporting overall recovery.
8) _____ in veterinary care combines conventional and complementary therapies to provide comprehensive and holistic treatment for animals.
9) Advanced _____ involves specialized techniques and therapies to promote optimal healing of complex wounds in animals.
10) Antifungal therapy involves the use of medications to treat _____, addressing conditions like dermatophytosis and systemic mycoses.
11) _____ is employed to enhance the well-being of animals, preventing stress-related diseases by promoting mental and physical stimulation.
12) _____ focuses on using vaccines to treat or manage existing diseases in animals, often applied in chronic or persistent infections.
13) Death occurs within _____ to _____ after clinical symptoms appear
14) _____ is more effective and less costly

15) Reducing stress and exposure also help in _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define Veterinary Medicine?
2) What is meant by Antimicrobial Therapy ?
3) What is meant by the term Deworming in veterinary practice?
4) The role of Disinfection in the primary treatment of animal diseases?
5) Define the term Myiasis and its implications for animal health?
6) Define the term Antipyretic and its application?
7) Define the term Endemic?
8) What is meant by the term Antihelminthic in the treatment of internal parasites in animals?
9) Define the term Inoculation and its application ?
10) What is meant by the term Antioxidant and its role in animal health?
11) The concept of Passive Immunity ?
12) What is meant by the term Seroconversion and its importance in disease diagnostics?
13) Define the term Anthrax and its characteristics as a zoonotic disease?
14) Write about BVD?
15) Write about bloat?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Discuss the importance of Vaccination in veterinary medicine, covering the types of vaccines, the vaccination schedule, and the impact on herd immunity?
2) Explain the concept of Biosecurity in the primary treatment and prevention of infectious diseases in animals?
3) Explain the role of Antiseptics in wound care and infection prevention in animals, covering common antiseptic agents and their applications?
4) Discuss the role of Antifungals in the primary treatment of fungal infections in animals, covering common fungi, treatment protocols, and preventive measures?
5) Discuss the principles of Environmental Enrichment in the primary treatment and prevention of stress-related diseases?
6) Discuss the principles of Anthelmintic Resistance and strategies for managing and preventing resistance in the treatment of internal parasites in animals?
7) Explain the importance of Nutritional Support in the primary treatment of sick animals?
8) What is the Brocellosis symptoms?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Explain the considerations and procedures involved in conducting a Post-Mortem Examination (Necropsy) for diagnostic purposes in animals?
2) Explain the principles of Chemotherapy in veterinary oncology?
3) Discuss the principles and applications of Enzyme Replacement Therapy in managing genetic disorders?
4) Explain the applications of Stem Cell Therapy ?
5) What is the common disease in dairy cattle?

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TWO YEARS (FINAL YEAR) EXAMINATION NOVEMBER-2025

VE001-13 ARTIFICIAL INSEMINATION

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____ is a type of artificial insemination where sperm is placed directly into the uterus.

2) _____ samples can be stored for future artificial insemination procedures.

3) Artificial insemination can be performed using a partner's sperm or sperm from a _____

4) _____ unexplained infertility may explore artificial insemination as a potential solution.

5) Cilia Short threads projecting from the _____, which make it move by beating.

6) Dizygotic Originating from two separate fertilized ova. _____ are also known as non- identical twins.

7) _____ connecting an ovary to the uterus.

8) False heat a cow not on heat, but showing one or more of the _____ associated with heat.

9) Karyotype Orderly photographic representation of _____.

10) Penis Male organ of _____ (plural-penes).

11) Synchronisation (Of oestrous) Inducing a number of cows to display _____ within a short time (see prostaglandins).

12) _____ is not merely a novel method of bringing about impregnation infantile.

13) The artificial _____ is held with the left hand by aright han deep persons.

14) As mentioned _____ can become large and aggressive

15) Collection of _____ with the artificial vagina

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define External organs?
2) Define The cervix?
3) Define A narrow canal?
4) How to Control of the oestrous cycle?
5) Define Stage 5-alternative (b)?
6) Define Hormonal assay?
7) What are the Signs of approaching parturition?
8) Define Safe storage time?
9) What are the Poor seal between straw and sheath?
10) Define Semen costs?
11) Define AI Equipment?
12) Effects of nutrition on fertility?
13) What is disadvantages of A.I?
14) Write about vaginal method?
15) Write about Glass ware abrogation?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Write Brief Answer about an Ovaries?
2) Write Brief Answer about an Structure of the ovum?
3) Explain about Testicles (testes)?
4) Explain about The penis?
5) Explain about Static holding time?
6) Explain about Strategic weaning?
7) Explain about Trichomoniasis?
8) Describe about Artificial vagina methods?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Write Long Answer about The reproductive tract of the cow?
2) Explain about Pregnancy diagnosis?
3) Explain about Palpation?
4) Write Long Answer about Draft budget example?
5) Describe about semen technology and field practices?

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VE001-BSS DIPLOMA IN VETERINARY SCIENCES

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

VE001-02 VETERINARY ANATOMY

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) The primary combined action of the internal obturator, external obturator, and gemellus muscles is to: _____

2) The _____ is the first chamber of the ruminant stomach.

3) The _____ is the hormone that stimulates the development of female secondary sex characteristics.

4) The arteries are surrounded by a _____ and may become related to the structures like veins, nerves, muscles, bones and skin.

5) The _____ is the tube that carries food from the mouth to the stomach in the digestive system.

6) The _____ is the hormone that stimulates the contraction of smooth muscle in the uterus during estrus.

7) The _____ is the muscle that controls the opening and closing of the anal sphincter.

8) The _____ is the hormone that stimulates the release of milk from the mammary glands.

9) The _____ is the hormone that stimulates the contraction of smooth muscle in the uterus during parturition.

10) _____ together to perform a specific function in the body forms an Organ System

11) The peritoneum, which covers the parieties, is called _____, which is reflected over the contained organs, the visceral layer of peritoneum

12) The _____ of sheep and Goat generally resembles that of ox with the few differences

13) The _____ are the kidneys, ureters, bladder and urethra

14) Anatomy is the study of the _____ of living things

15) _____ act in blood clotting

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define Homeostasis
2) What are the ventral body cavity components
3) Define Median Plane
4) Define Dorsal Plane
5) What is the function of the mitral valve in the heart?
6) What is the role of the cervix in the female reproductive system?
7) What is the difference between a simple and compound gland?
8) What is the function of the meatus in the ear?
9) What is the difference between afferent and efferent nerves?
10) What is the function of the carotid artery in the circulatory system?
11) What is the difference between intracellular and extracellular fluid?
12) What is the function of the corpus callosum in the brain?
13) What is the role of the amygdala in the brain?
14) How to work Red cells in Animals body?
15) Define Hypodermis?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) What is the function of the cranial cruciate ligament?
2) Name the two parts of a vertebral arch.
3) How are spinal nerves related anatomically to intervertebral disks?
4) From which parent vessels do the caudal auricular and superficial cervical arteries arise in the cat and dog?
5) Describe the structure and function of the equine hoof, including the different parts and their roles in movement and support?
6) Describe the anatomy and function of the canine urinary system, including the nephrons, renal pelvis, and bladder?
7) Discuss the anatomy of the canine musculature, including the different muscle groups and their roles in movement and posture?
8) Describe the anatomy of the bovine reproductive system, including the different parts and their roles in reproduction and lactation?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Discuss the ocular manifestations of systemic disease in cattle.
2) Explain the structure and function of the avian respiratory system, including the air sacs, lungs, and breathing mechanism?
3) Discuss the structure and function of the equine reproductive system, including the ovaries, uterus, and breeding cycle?
4) Describe the anatomy and function of the canine respiratory system, including the nasal cavity, pharynx, larynx, trachea, bronchi, and lungs?
5) Draw the different types of the skeleton of the hand?

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TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

VE001-03 VETERINARY PHYSIOLOGY

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) The Food Entering Oral Cavity Is Broken Up Into Small _____
2) The _____ is the fluid that bathes the cells and tissues of the body.
3) The _____ provides support and structure to the body and allows for movement.
4) The peristalsis is the coordinated _____ that move food through the digestive tract.
5) The acetylcholine is a _____that stimulates muscle contraction in the parasympathetic nervous system.
6) The _____ is a hormone produced by the adrenal gland that stimulates the sympathetic nervous system.
7) The erythrocytes are the _____ that transport oxygen throughout the body.
8) The _____ are the white blood cells that are involved in the body's immune response.
9) The _____ carries deoxygenated blood from the heart to the lungs.
10) The hormone responsible for promoting milk production in lactating females is _____
11) The hormone responsible for promoting the development of _____ characteristics is testosterone.
12) The specialized cells responsible for transmitting nerve impulses are called _____
13) The process by which food is broken down and absorbed by the body is called _____
14) The part of the nervous system responsible for the _____ response is the sympathetic nervous system.
15) The hormone responsible for regulating sleep and wakefulness is _____

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define Superficial
2) Define Palmar
3) Define Withers
4) Define Tetanus?
5) Define Ventilation?
6) Define Elimination?
7) Define Enzyme?
8) Define Endocrine Gland?
9) Define the term filtration?
10) Define the term tonicity?
11) Define the term threshold potential?
12) Define the term preload?
13) What is meant by the term compliance?
14) Define the term counter-current mechanism?
15) What is meant by the term bicarbonate buffer system?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Describe the potential ocular manifestations of hyperlipidaemia. What systemic diseases may be associated with hyperlipidaemia?
2) Explain the process of renal filtration and reabsorption in the kidney?
3) Describe the structure and function of the liver in maintaining metabolic homeostasis?
4) Explain the process of action potential generation and propagation in neurons?
5) How do animals perceive and respond to various sensory stimuli?
6) Explain the process of protein synthesis in cells?
7) Describe the function of the pituitary gland in the regulation of various body functions?
8) Describe the structure and function of the different types of blood vessels in animals?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe the renin-angiotensin-aldosterone system and its role in regulating blood pressure in animals?
2) Describe the process of blood clotting and the role of various clotting factors?
3) Explain the process of respiration in animals, including the mechanisms of gas exchange and transport?
4) Discuss the process of urine formation in the kidney, including the role of glomerular filtration, tubular reabsorption, and tubular secretion?
5) Explain the process of osmoregulation in animals, including the roles of various transport mechanisms in maintaining water and electrolyte balance?

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VE001-BSS DIPLOMA IN VETERINARY SCIENCES

TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

VE001-04 VETERINARY SCIENCE

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) High fever _____ sneezing, serous _____ discharge.

2) _____ means physiological and mental well being of an individual.

3) Primary vaccination at the age of _____

4) Ingestion of the contaminated _____ is the main source of infection.

5) The ovarian system is responsible for the _____ in female animals.

6) _____ is the term used to describe difficulty in breathing.

7) Amputation is a _____ to remove a limb in animals.

8) _____ is the small, muscular pouch in the throat of a bird where food is temporarily stored.

9) _____ is the term used to describe an animal's ability to see clearly in the dark.

10) The _____ is responsible for filtering and eliminating waste products from the blood in animals.

11) _____ is the state of controlled unconsciousness induced for medical procedures in animals.

12) _____ is a condition characterized by having extra toes or digits in animals.

13) The _____ produce hormones that regulate various functions in animals, including stress response.

14) The endocrine system is responsible for producing and regulating _____ in animals.

15) The _____ is an organism that lives in or on another organism and derives nourishment at the host's expense.

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) Define Nephritis?
2) Swine Erysipelas Define?
3) What is nutrients?
4) Define Brain injury?
5) The term brachycephalic?
6) What is the definition of an abscess and its treatment in animals?
7) What is the definition of anemia and its common causes in veterinary patients?
8) Define the term chemotherapy ?
9) Define the term "zoonotic disease" ?
10) Define the term "hematology" ?
11) What is the definition of "anesthesia" in veterinary practice?
12) What is the definition of "viral shedding" ?
13) What is the definition of "anaphylaxis"?
14) Define the term "exocrine gland" ?
15) What is the definition of "dystocia" ?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) What is absorption?Where is it located?
2) Write about helminthic diseases of animal?
3) Discuss the principles and importance of vaccination in veterinary medicine?
4) Explain the role of nutrition in the maintenance of optimal health and disease prevention in animals?
5) Discuss the pathophysiology and management of a specific endocrine disorder in animals?
6) Describe the common diagnostic techniques used in veterinary radiology and their applications?
7) Explain the principles and techniques of dental prophylaxis and oral health care in veterinary medicine?
8) Discuss the principles and techniques of assisted reproduction and artificial insemination in animals?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Describe the parts of animal nutrition?
2) Explain constipation with their different features?
3) What are the difference between heamoptysis & hematemesis?
4) Discuss the role of veterinary professionals in the promotion and implementation of animal welfare standards and the ethical considerations involved?
5) Explain the principles and techniques of diagnostic imaging modalities used in veterinary medicine?

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TWO YEARS (FIRST YEAR) EXAMINATION NOVEMBER-2025

VE001-05 CATTLE FEED AND GROSS PRODUCTION

TIME: 3 Hours **Marks: 100**

INSTRUCTIONS

* 43 questions are there in total
* Write answers to each question in proportion to the mark allotted
* During the first 15 minutes read the questions carefully

I. FILL IN THE BLANKS - ANSWER FOR ANY 10 QUESTIONS **1 x 10 = 10**

1) _____, such as cattle, have a complex digestive system that allows them to efficiently process fibrous plant materials.
2) Corn silage is a common and nutritious forage component in _____.
3) Protein-rich supplements, like soybean meal, are often added to cattle feed to meet their _____.
4) Ensuring a _____ of calcium and phosphorus is crucial for the health and productivity of cattle.
5) Salt and mineral supplements are important additives in _____ to prevent nutritional deficiencies.
6) Supplementing cattle feed with _____ can enhance digestive health and nutrient absorption.
7) Cattle require a sufficient _____, including vitamin A and vitamin D, for overall health.
8) _____ should consider the nutritional needs of different life stages, including calves, heifers, and mature cows.
9) The nutritional content of cattle feed should be _____ regularly to adjust formulations for changing conditions.
10) _____, such as precision agriculture, can significantly boost gross production efficiency.
11) _____ contributes to a more resilient and stable gross production.
12) Crop yields and livestock productivity are key factors influencing gross production in the _____.
13) _____ is a preservation method for forage that maintains its nutritional quality in cattle feed.
14) Integrated _____ strategies can protect crops and contribute to sustained gross production.
15) Crop diversification and the adoption of high-yielding varieties are strategies to increase _____ in agriculture.

II. DEFINE THE FOLLOWING - ANSWER FOR ANY 10 QUESTIONS **2 x 10 = 20**

1) What is the role of probiotics in cattle feed?
2) How does it impact overall nutrition?
3) Role in animal nutrition?
4) The significance of vitamin supplementation ?
5) provide examples of crucial vitamins?
6) Define the term "Silage" ?
7) Define gross production ?
8) How it contributes to increased efficiency in gross production?
9) The concept of sustainable farming practices?
10) Role in balancing gross production and environmental impact?
11) What animals exhibit monogastric digestion?
12) The concept of "nutrient utilization"?
13) The concept of "metabolizable energy" in the formulation of cattle feed?
14) What factors influence the metabolizable energy content of feed?
15) What factors affect crop yield?

III. WRITE BRIEF ANSWER FOR ANY 5 QUESTIONS **5 x 5 = 25**

1) Explain the process of formulating a balanced Total Mixed Ration (TMR) for cattle feed?
2) Explain the role of probiotics in cattle feed and how they contribute to digestive health?
3) Describe the steps involved in silage fermentation and its role in preserving forage for cattle feed?
4) Describe the impact of climate conditions and weather patterns on gross production in agriculture?
5) Describe the role of efficient supply chains and infrastructure in maximizing gross production and minimizing waste?
6) Describe the impact of "metabolic disorders" in cattle and how proper nutrition can help prevent them?
7) Explain the principles of "grazing management" and how it influences the health of pasture-fed cattle?
8) Describe the benefits of "crop rotation" on soil health and its impact on sustaining gross production over time?

IV. WRITE LONG ANSWER FOR ANY 3 QUESTIONS **15 x 3 = 45**

1) Can you detail the specific nutritional requirements for different life stages of cattle, such as calves, heifers, and mature cows?
2) Explain the importance of mineral supplementation in cattle feed, specifying the key minerals required and their functions?
3) Explain how sustainable farming practices, including organic farming and agroecology, contribute to the long-term goals of gross production?
4) Describe the role of technological innovations, such as artificial intelligence and data analytics, in modern agriculture and their effects on gross production?
5) Provide an overview of the impact of government policies and subsidies on gross production in agriculture?