

National Testing Agency

Question Paper Name :	Animal Nutrition 23rd Sep 2020 Shift 2 Set 2
Subject Name :	Animal Nutrition
Creation Date :	2020-09-23 19:33:36
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Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
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Animal Nutrition

Group Number :	1
Group Id :	71087020
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

Part A General Knowledge

Section Id :	71087058
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20

Number of Questions to be attempted :	20
Section Marks :	80
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087058
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7108702341 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following crops is a commercial crop in Punjab and Haryana but is a subsistence crop in Orissa?

1. Tea
2. Cotton
3. Rubber
4. Rice

Options :

- 7108709361. 1
- 7108709362. 2
- 7108709363. 3
- 7108709364. 4

Question Number : 2 Question Id : 7108702342 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following are the two most important wheat-growing zones of the country?

- A. Ganga-Satluj plains in the north-west
- B. Deltaic regions
- C. Black soil region of the Deccan
- D. Plains of north-east

Choose the **correct** answer from the options below:

- 1. Only A and B
- 2. Only B and C
- 3. Only C and D
- 4. Only A and C

Options :

- 7108709365. 1
- 7108709366. 2
- 7108709367. 3
- 7108709368. 4

Question Number : 3 Question Id : 7108702343 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Indian agriculture is typically characterized as

- 1. Land surplus, labour scarce economy
- 2. Land surplus, labour surplus economy
- 3. Land scarce, labour surplus economy
- 4. Land scarce, labour scarce economy

Options :

- 7108709369. 1

7108709370. 2

7108709371. 3

7108709372. 4

Question Number : 4 Question Id : 7108702344 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries is the main rival of India in tea export?

1. China
2. Japan
3. Germany
4. Sri Lanka

Options :

7108709373. 1

7108709374. 2

7108709375. 3

7108709376. 4

Question Number : 5 Question Id : 7108702345 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement A: MSP is declared by the government every year to provide incentives to the farmers for raising the production of crops.

Statement B: Buffer stock is created to distribute food grains in the deficit areas and among the poorer strata of the society at the lower price than the market price.

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement A and Statement B are correct
2. Both Statement A and Statement B are incorrect
3. Statement A is correct but Statement B is incorrect
4. Statement A is incorrect but Statement B is correct

Options :

- 7108709377. 1
- 7108709378. 2
- 7108709379. 3
- 7108709380. 4

Question Number : 6 Question Id : 7108702346 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is a global association of nations of the world to help cooperation in international law, security, economic development and social equity?

1. United Nations Organization
2. International Monetary Fund
3. World Bank
4. World Health Organization

Options :

- 7108709381. 1
- 7108709382. 2
- 7108709383. 3
- 7108709384. 4

Question Number : 7 Question Id : 7108702347 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Under the Ganga Action Plan Phase II, pollution abatement works are being taken up in how many towns?

- 1. 57
- 2. 65
- 3. 52
- 4. 69

Options :

- 7108709385. 1
- 7108709386. 2
- 7108709387. 3
- 7108709388. 4

Question Number : 8 Question Id : 7108702348 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is **incorrect**?

- 1. The highest number of pigs in the world are found in India
- 2. Utter Pradesh provides largest amount of pork
- 3. Assam has the largest number of pork producing pigs
- 4. Pork constitutes about 7.6% of the total meat produced in India

Options :

7108709389. 1

7108709390. 2

7108709391. 3

7108709392. 4

Question Number : 9 Question Id : 7108702349 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which type of N-fertilizer is suitable for water-logged soils?

1. Zinc Phosphate
2. Ammonium Sulphate
3. Calcium
4. Potassium Nitrate

Options :

7108709393. 1

7108709394. 2

7108709395. 3

7108709396. 4

Question Number : 10 Question Id : 7108702350 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The famous Bailadila range of hills in the Bastar district of Chhattisgarh is famous for its

1. Bauxite deposits
2. Manganese deposits
3. Copper deposits
4. High-grade haematite deposits

Options :

7108709397. 1

7108709398. 2

7108709399. 3

7108709400. 4

Question Number : 11 Question Id : 7108702351 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A farmer wishes to start a 100 sq. m rectangular vegetable garden. Since he has only 30m barbed wire, he fences three sides of the garden letting his house compound wall act as the fourth side fencing. What is the dimension of the garden?

1. 15 m x 6.67m
2. 20 m x 5 m
3. 30 m x 3.33 m
4. 40 m x 2.5 m

Options :

7108709401. 1

7108709402. 2

7108709403. 3

7108709404. 4

Question Number : 12 Question Id : 7108702352 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In which one of the following industries, the consumption of natural rubber is the largest?

1. Auto tyres and tubes
2. Footwear
3. Dipped goods
4. Latex foam

Options :

7108709405. 1
7108709406. 2
7108709407. 3
7108709408. 4

Question Number : 13 Question Id : 7108702353 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries was the partner country of 34th Surajkund International Crafts Fair held in Haryana?

1. China
2. Nepal
3. Bhutan
4. Uzbekistan

Options :

7108709409. 1
7108709410. 2
7108709411. 3
7108709412. 4

Question Number : 14 Question Id : 7108702354 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Nobel laureate Abhijit Vinayak Banerjee was conferred the honorary Doctor of Letters (D. Litt.) by which University?

1. University of Delhi
2. University of Kolkata
3. University of Mumbai
4. University of Hyderabad

Options :

- 7108709413. 1
- 7108709414. 2
- 7108709415. 3
- 7108709416. 4

Question Number : 15 Question Id : 7108702355 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Where is the headquarters of European Union?

- 1. Geneva, Switzerland
- 2. Washington D.C., USA
- 3. New York, US
- 4. Brussels, Belgium

Options :

- 7108709417. 1
- 7108709418. 2
- 7108709419. 3
- 7108709420. 4

Question Number : 16 Question Id : 7108702356 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following would be deficient if one finds high somatic cell count in the cow's milk?

- 1. Butterfat
- 2. Whey protein
- 3. Casein
- 4. Trace minerals

Options :

- 7108709421. 1
- 7108709422. 2
- 7108709423. 3
- 7108709424. 4

Question Number : 17 Question Id : 7108702357 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Who was the first administrator-statesman to attempt planning as a means for economic development?

- 1. C. Rajagopalachari
- 2. V. T. Krishnamachari
- 3. M. Viswesvarayya
- 4. Sir C. P. Ramaswami Aiyar

Options :

- 7108709425. 1
- 7108709426. 2
- 7108709427. 3
- 7108709428. 4

Question Number : 18 Question Id : 7108702358 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Amazon rainforest span over nine countries. In August 2019, in which country did a deadly fire broke out in the Amazon forest?

- 1. Brazil
- 2. Venezuela
- 3. Colombia
- 4. Argentina

Options :

- 7108709429. 1
- 7108709430. 2
- 7108709431. 3
- 7108709432. 4

Question Number : 19 Question Id : 7108702359 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Economic liberalization in India started with

- 1. Sustainable changes in industrial licensing policy
- 2. The convertibility of the Indian Rupee
- 3. Significant reduction of tax rates
- 4. Changes in procedural formalities for FDI

Options :

- 7108709433. 1
- 7108709434. 2
- 7108709435. 3
- 7108709436. 4

Question Number : 20 Question Id : 7108702360 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The term 'Delimitation' which was in news recently is associated with which process?

- 1. Fixing the limit of Income tax
- 2. Fixing limits of Affordable housing
- 3. Fixing limits of Territorial constituencies
- 4. Fixing limits of Chairpersons salary

Options :

- 7108709437. 1

7108709438. 2

7108709439. 3

7108709440. 4

Part B Core Veterinary and Animal Sciences I

Section Id :	71087059
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087059
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 7108702361 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The term Genetics was given by

1. Gregor Johann Mendel
2. William Batesan
3. Johannsen
4. Thomas Hunt Morgan

Options :

7108709441. 1

7108709442. 2

7108709443. 3

7108709444. 4

Question Number : 22 Question Id : 7108702362 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match the **List I** with **List II**

List I	List II
A. Incomplete Dominance	I. Sickle cell anaemia
B. Overdominance	II. Plumage Colour in chicken
C. Epistasis	III. Coat colour of a mouse
D. Lethal genes	IV. Blue Andalusian fowl

Choose the **correct** answer from the options given below.

1. A- III , B-IV , C-I , D-II
2. A-II , B-III , C-IV , D-I
3. A-I , B-II , C-III , D-IV
4. A-IV , B-I , C-II , D-III

Options :

7108709445. 1

7108709446. 2

7108709447. 3

7108709448. 4

Question Number : 23 Question Id : 7108702363 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Knowledge of which type of inheritance is used for the sexing of day-old chick?

1. Sex linked inheritance
2. Sex limited inheritance
3. Sex influenced inheritance
4. Autosomal inheritance

Options :

- 7108709449. 1
- 7108709450. 2
- 7108709451. 3
- 7108709452. 4

Question Number : 24 Question Id : 7108702364 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The inheritance pattern in which the expression of the nuclear gene is altered without altering its sequence

1. Epigenetics
2. Maternal
3. Gene imprinting
4. Somatic mutation

Options :

- 7108709453. 1
- 7108709454. 2
- 7108709455. 3
- 7108709456. 4

Question Number : 25 Question Id : 7108702365 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The technical synonym of random mating is

1. Dysmixia
2. Synmixia
3. Panmixia
4. Ranmixia

Options :

7108709457. 1
7108709458. 2
7108709459. 3
7108709460. 4

Question Number : 26 Question Id : 7108702366 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The value observed or recorded for an individual for a quantitative trait is referred to as

1. Phenotypic value
2. Genotypic value
3. Environmental variation
4. Genotype-environment interaction

Options :

7108709461. 1
7108709462. 2
7108709463. 3
7108709464. 4

Question Number : 27 Question Id : 7108702367 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The breeding value mainly depends upon

1. Additive genetic variance
2. Dominance deviation variance
3. Epistatic variance
4. Environmental variance

Options :

- 7108709465. 1
- 7108709466. 2
- 7108709467. 3
- 7108709468. 4

Question Number : 28 Question Id : 7108702368 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following heritability estimation method is most frequently used and is easy in terms of data availability?

1. Twin analysis
2. Offspring-parent
3. Half sibs
4. Full sibs

Options :

- 7108709469. 1
- 7108709470. 2
- 7108709471. 3
- 7108709472. 4

Question Number : 29 Question Id : 7108702369 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The genetic gain per year in a population undergoing selection does NOT depend upon

1. Heritability
2. Selection differential
3. Generation interval
4. Phenocopy

Options :

- 7108709473. 1
- 7108709474. 2
- 7108709475. 3
- 7108709476. 4

Question Number : 30 Question Id : 7108702370 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Mass selection is also known as

1. Individual selection
2. Family selection
3. Pedigree selection
4. Combined selection

Options :

- 7108709477. 1
- 7108709478. 2
- 7108709479. 3
- 7108709480. 4

Question Number : 31 Question Id : 7108702371 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following gases has a green house effect?

1. Oxygen
2. Nitrogen
3. Carbon dioxide
4. Hydrogen

Options :

- 7108709481. 1
- 7108709482. 2
- 7108709483. 3
- 7108709484. 4

Question Number : 32 Question Id : 7108702372 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which vitamin is mostly affected and increased during haymaking?

1. Vitamin A
2. Vitamin D
3. Vitamin E
4. Vitamin K

Options :

- 7108709485. 1
- 7108709486. 2
- 7108709487. 3
- 7108709488. 4

Question Number : 33 Question Id : 7108702373 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Phytin phosphorus is best utilized in which one of the following animals?

1. Poultry
2. Pig
3. Horse
4. Buffalo

Options :

- 7108709489. 1
- 7108709490. 2
- 7108709491. 3
- 7108709492. 4

Question Number : 34 Question Id : 7108702374 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following vitamins has a greater chance of toxicity?

1. Vitamin A
2. Vitamin C
3. Vitamin B1
4. Vitamin B12

Options :

- 7108709493. 1
- 7108709494. 2
- 7108709495. 3
- 7108709496. 4

Question Number : 35 Question Id : 7108702375 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

List I	List II
A. Niacin	I. Cocarboxylase
B. Thiamin	II. NADP
C. Riboflavin	III. Coenzyme A
D. Pantothenic acid	IV. FAD

Choose the correct answer from the options given below

1. A-III , B-II , C-IV , D-I
2. A-II , B-I , C-IV , D-III
3. A-IV , B-III , C-II , D-I
4. A-I , B-II , C-III , D-IV

Options :

- 7108709497. 1
- 7108709498. 2
- 7108709499. 3
- 7108709500. 4

Question Number : 36 Question Id : 7108702376 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In preparation of artificial colostrum, which oil is used to promote the laxative action?

1. Mustard oil
2. Castor oil
3. Olive oil
4. Soyabean oil

Options :

- 7108709501. 1

7108709502. 2

7108709503. 3

7108709504. 4

Question Number : 37 Question Id : 7108702377 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: The net ATP production from butyric acid is 25 per mole.

Statement II: Butyric acid is absorbed as a ketone body.

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are correct
2. Both Statement I and Statement II are incorrect
3. Statement I is correct but Statement II is incorrect
4. Statement I is incorrect but Statement II is correct

Options :

7108709505. 1

7108709506. 2

7108709507. 3

7108709508. 4

Question Number : 38 Question Id : 7108702378 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following scientists analysed the body composition of farm animals?

1. Sen and Ray
2. Ray and Ranjhan
3. Watson and Krick
4. Lawes and Gilbert

Options :

- 7108709509. 1
- 7108709510. 2
- 7108709511. 3
- 7108709512. 4

Question Number : 39 Question Id : 7108702379 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most preferred ratio of nitrogen to sulphur in ruminants diet is:

1. 1:10
2. 10:1
3. 20:1
4. 5:1

Options :

- 7108709513. 1
- 7108709514. 2
- 7108709515. 3
- 7108709516. 4

Question Number : 40 Question Id : 7108702380 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Ascorbic acid is a dietary essential for:

1. Rat
2. Guinea pig
3. Mice
4. Pig

Options :

- 7108709517. 1
- 7108709518. 2
- 7108709519. 3
- 7108709520. 4

Question Number : 41 Question Id : 7108702381 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Cattle population is highest in which one of the following countries?

1. India
2. Brazil
3. China
4. United States of America

Options :

- 7108709521. 1
- 7108709522. 2
- 7108709523. 3
- 7108709524. 4

Question Number : 42 Question Id : 7108702382 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is an essential nutrient for man, and is exclusively supplied by animal products?

1. Riboflavin and Vitamin B₁₂
2. Vitamin B₁₂ and Niacin
3. Vitamin B₁₂
4. Thiamin

Options :

- 7108709525. 1
- 7108709526. 2
- 7108709527. 3
- 7108709528. 4

Question Number : 43 Question Id : 7108702383 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Zinc is essential for dairy cattle and it reduces the ovarian production in female

Statement II: Zinc is essential for male as its deficiency may reduce spermatozoa production in male

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are correct
2. Both Statement I and Statement II are incorrect
3. Statement I is correct but Statement II is incorrect
4. Statement I is incorrect but Statement II is correct

Options :

- 7108709529. 1

7108709530. 2

7108709531. 3

7108709532. 4

Question Number : 44 Question Id : 7108702384 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following pairs are correctly matched?

- A. Jaffarabadi - Gujarat
- B. Nili-Ravi - Odisha
- C. Bhadawari - Uttar Pradesh
- D. Toda - Odisha

Choose the correct answer from the options given below

- 1. A and C only
- 2. B and C only
- 3. A and D only
- 4. A and B only

Options :

7108709533. 1

7108709534. 2

7108709535. 3

7108709536. 4

Question Number : 45 Question Id : 7108702385 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The standard slope/gradient provided in dairy cattle sheds for the maintenance of the cleanliness is

1. 1:20
2. 1:40
3. 1:60
4. 1:80

Options :

- 7108709537. 1
- 7108709538. 2
- 7108709539. 3
- 7108709540. 4

Question Number : 46 Question Id : 7108702386 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Current feeding standards for Indian animals have been developed by which agency?

1. Indian Veterinary Research Institute, Izatnagar
2. National Dairy Research Institute, Karnal
3. Indian Council of Agricultural Research, New Delhi
4. Bureau of Indian Standards, New Delhi

Options :

- 7108709541. 1
- 7108709542. 2
- 7108709543. 3
- 7108709544. 4

Question Number : 47 Question Id : 7108702387 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Green fodder, pastures and straws are available in sufficient quantities in India but protein concentrates supply is lacking

Statement II: Energy sources supply in India for feeding animals in India is lacking but the supply of green fodder is adequate

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are correct
2. Both Statement I and Statement II are incorrect
3. Statement I is correct but Statement II is incorrect
4. Statement I is incorrect but Statement II is correct

Options :

7108709545. 1

7108709546. 2

7108709547. 3

7108709548. 4

Question Number : 48 Question Id : 7108702388 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Legumes are a good source of proteins, minerals and vitamins

Statement II: Grasses are better sources of energy and minerals than legume fodders

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are correct
2. Both Statement I and Statement II are incorrect
3. Statement I is correct but Statement II is incorrect
4. Statement I is incorrect but Statement II is correct

Options :

- 7108709549. 1
- 7108709550. 2
- 7108709551. 3
- 7108709552. 4

Question Number : 49 Question Id : 7108702389 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is the desired body condition score in 6-point score programme for heifers up to breeding age?

1. 1.0-1.5
2. 2.0-2.5
3. 3.5-4.0
4. 4.5-5.0

Options :

- 7108709553. 1
- 7108709554. 2
- 7108709555. 3

7108709556. 4

Question Number : 50 Question Id : 7108702390 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

What quantity of colostrum in terms of per cent of its body weight should be fed to a calf?

1. <5.0%
2. 10%
3. 20%
4. 40%

Options :

- 7108709557. 1
- 7108709558. 2
- 7108709559. 3
- 7108709560. 4

Question Number : 51 Question Id : 7108702391 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is an emulsion based meat product?

1. Chicken Tikka
2. Tandoori chicken
3. Chicken sausages
4. Curry chicken

Options :

- 7108709561. 1
- 7108709562. 2
- 7108709563. 3
- 7108709564. 4

Question Number : 52 Question Id : 7108702392 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Name the milk product which is prepared from khoa

1. Rasgulla
2. Pontilla
3. Rabri
4. Gulabjamun

Options :

- 7108709565. 1
- 7108709566. 2
- 7108709567. 3
- 7108709568. 4

Question Number : 53 Question Id : 7108702393 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is/are voluntary standard(s) for the food industry?

1. BIS only
2. FSSAI only
3. AGMARK only
4. BIS and FSSAI both

Options :

- 7108709569. 1
- 7108709570. 2
- 7108709571. 3
- 7108709572. 4

Question Number : 54 Question Id : 7108702394 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is the objective method of assessment of the organoleptic quality of meat?

1. Paired Difference Test
2. Hedonic Scale
3. Shear Press Method
4. Duo-trio-test

Options :

- 7108709573. 1
- 7108709574. 2
- 7108709575. 3
- 7108709576. 4

Question Number : 55 Question Id : 7108702395 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Central Cleaning system (CCS) requires a minimum pressure of

1. 10-20 kgf/cm²
2. 20-30 kgf/cm²
3. 30-50 kgf/cm²
4. 50-70 kgf/cm²

Options :

- 7108709577. 1
- 7108709578. 2
- 7108709579. 3
- 7108709580. 4

Question Number : 56 Question Id : 7108702396 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Higher ultimate pH in animals transported for long-distance leads to

1. Soft, Exudative Meat
2. Dark, Firm Meat
3. White and Black Meat
4. Hot and Red Meat

Options :

- 7108709581. 1
- 7108709582. 2
- 7108709583. 3
- 7108709584. 4

Question Number : 57 Question Id : 7108702397 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The best quality gulab jamuns can be prepared from which of the following types of khoa?

1. Pindi
2. Dhap
3. Danedar
4. Any type of Khoa

Options :

- 7108709585. 1
- 7108709586. 2
- 7108709587. 3
- 7108709588. 4

Question Number : 58 Question Id : 7108702398 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The green colour of whey is attributed to

1. Vitamin C
2. Riboflavin
3. Vitamin D
4. Iron

Options :

7108709589. 1
7108709590. 2
7108709591. 3
7108709592. 4

Question Number : 59 Question Id : 7108702399 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which country is the biggest producer and importer of pork?

1. India
2. Iran
3. China
4. Australia

Options :

7108709593. 1
7108709594. 2
7108709595. 3
7108709596. 4

Question Number : 60 Question Id : 7108702400 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is a method of preservation of shell eggs?

1. Irradiation
2. Thermostabilization
3. Freezing
4. Canning

Options :

- 7108709597. 1
- 7108709598. 2
- 7108709599. 3
- 7108709600. 4

Question Number : 61 Question Id : 7108702401 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following species of poultry has a helmet and a protuberance on the head?

1. Ostrich
2. Emu
3. Goose
4. Guinea fowl

Options :

- 7108709601. 1
- 7108709602. 2
- 7108709603. 3
- 7108709604. 4

Question Number : 62 Question Id : 7108702402 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bourbon red is a variety of

1. Turkey
2. Guinea fowl
3. Japanese Quail
4. Goose

Options :

- 7108709605. 1
- 7108709606. 2
- 7108709607. 3
- 7108709608. 4

Question Number : 63 Question Id : 7108702403 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Skin colour of chicken is inherited by

1. Complete dominance
2. Incomplete dominance
3. Sex-linked inheritance
4. Epistasis

Options :

- 7108709609. 1
- 7108709610. 2
- 7108709611. 3
- 7108709612. 4

Question Number : 64 Question Id : 7108702404 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is a highly inheritable trait?

1. Age at sexual maturity
2. Body weight
3. Egg quality
4. Egg number

Options :

- 7108709613. 1
- 7108709614. 2
- 7108709615. 3
- 7108709616. 4

Question Number : 65 Question Id : 7108702405 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The correct descending order of feed ingredients for their Metabolizable Energy (ME) content is

1. Yellow maize > sorghum > wheat bran > rice polish
2. Sorghum > yellow maize > wheat bran > rice polish
3. Yellow maize > sorghum > rice polish > wheat bran
4. Rice polish > yellow maize > sorghum > wheat bran

Options :

- 7108709617. 1
- 7108709618. 2
- 7108709619. 3
- 7108709620. 4

Question Number : 66 Question Id : 7108702406 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following feeds contains more crude protein as per BIS (2007) compared to the others?

1. Layer phase –I
2. Grower mash
3. Broiler starter
4. Broiler finisher

Options :

- 7108709621. 1
- 7108709622. 2
- 7108709623. 3
- 7108709624. 4

Question Number : 67 Question Id : 7108702407 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Anti-nutritional factor present in fish meal is

1. Gossypol
2. Trypsin inhibitor
3. Tannins
4. Gizzerosine

Options :

- 7108709625. 1
- 7108709626. 2
- 7108709627. 3
- 7108709628. 4

Question Number : 68 Question Id : 7108702408 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The enzyme present in the salivary secretion

1. Ptyalin
2. Pepsin
3. Carboxy peptidase
4. Lipase

Options :

7108709629. 1
7108709630. 2
7108709631. 3
7108709632. 4

Question Number : 69 Question Id : 7108702409 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The only gland present in the skin of the chicken is

1. Sweat gland
2. Sebaceous gland
3. Preen gland
4. Foam gland

Options :

7108709633. 1
7108709634. 2
7108709635. 3
7108709636. 4

Question Number : 70 Question Id : 7108702410 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The protein that binds with two atoms of Fe molecule is

1. Ovomuroid
2. Ovoglobulin
3. Ovo flavoprotein
4. Conalbumin

Options :

7108709637. 1
7108709638. 2
7108709639. 3
7108709640. 4

Part C Animal Nutrition

Section Id :	71087060
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	71087060
Question Shuffling Allowed :	Yes

**Question Number : 71 Question Id : 7108702411 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1**

The ideal pH of good quality silage is:

1. Between 3.7 and 4.2
2. Between 5.0 and 6.9
3. Alkaline >7.0
4. Highly alkaline >10.0

Options :

- 7108709641. 1
- 7108709642. 2
- 7108709643. 3
- 7108709644. 4

Question Number : 72 Question Id : 7108702412 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following acid/acids is/are used in A. I. V. process of silage making?

- A. Lactic acid
- B. Hydrochloric acid
- C. Sulphuric acid

Select the correct answer from the options given below

1. A and B
2. B and C
3. A and C
4. A only

Options :

- 7108709645. 1
- 7108709646. 2

7108709647. 3

7108709648. 4

Question Number : 73 Question Id : 7108702413 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following chemicals can be used a hay preservative?

1. Propionic acid
2. Acetic acid
3. Lactic acid
4. Butyric acid

Options :

7108709649. 1

7108709650. 2

7108709651. 3

7108709652. 4

Question Number : 74 Question Id : 7108702414 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In well-preserved silage, the ratio of ammonia-N : total-N should be less than

1. 1:10
2. 10:1
3. 1:2
4. 2:1

Options :

7108709653. 1

7108709654. 2

7108709655. 3

7108709656. 4

Question Number : 75 Question Id : 7108702415 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

List I	List II
A. Isobutyric acid	I. Proline
B. Valeric acid	II. Isoleucine
C. 2-methyl butyric acid	III. Leucine
D. 3-methyl butyric acid	IV. Valine

Choose the correct answer from the options given below:

1. A-II, B-IV, C-I, D-III
2. A-II, B-I, C-IV, D-III
3. A-IV, B-I, C-II, D-III
4. A-III, B-II, C-I, D-IV

Options :

- 7108709657. 1
- 7108709658. 2
- 7108709659. 3
- 7108709660. 4

Question Number : 76 Question Id : 7108702416 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Methane inventory (Kg methane/Goat/Year) for goats as per IPCC (2006) is

1. 2
2. 4
3. 5
4. 3

Options :

- 7108709661. 1
- 7108709662. 2
- 7108709663. 3
- 7108709664. 4

Question Number : 77 Question Id : 7108702417 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Protozoa function in the rumen as

1. Methane emitters only
2. Methane sinks only
3. Methane emitter as well as sink, depending upon the diet
4. pH stabilizers

Options :

- 7108709665. 1
- 7108709666. 2
- 7108709667. 3
- 7108709668. 4

Question Number : 78 Question Id : 7108702418 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: In grazing animals, methane emission can be estimated using SF6 technique

Reason R: Halter and canister is used in SF6 assembly for sample collection

In light of the above statements, choose the **correct** answer from the options given below

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is **NOT** the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

- 7108709669. 1
- 7108709670. 2
- 7108709671. 3
- 7108709672. 4

Question Number : 79 Question Id : 7108702419 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Rumen microbial degradation of mimosine leads to the formation of goitrogen

1. 1,4- DHP
2. 2,4-DHP
3. 3,4-DHP
4. 1,2-DHP

Options :

- 7108709673. 1
- 7108709674. 2
- 7108709675. 3
- 7108709676. 4

Question Number : 80 Question Id : 7108702420 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Kunitz inhibitor present in legume seeds, inhibits

1. Pepsin only
2. Trypsin only
3. Chymotrypsin only
4. Both trypsin and chymotrypsin

Options :

7108709677. 1

7108709678. 2

7108709679. 3

7108709680. 4

Question Number : 81 Question Id : 7108702421 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Phaseolunatin, a cyanogenetic glycoside is NOT found in

1. Millet
2. Linseed
3. Java beans
4. Cassava

Options :

7108709681. 1

7108709682. 2

7108709683. 3

7108709684. 4

Question Number : 82 Question Id : 7108702422 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

Coumestans are usually found in

1. Soybean
2. Mushroom
3. Beans
4. Groundnuts

Options :

- 7108709685. 1
- 7108709686. 2
- 7108709687. 3
- 7108709688. 4

Question Number : 83 Question Id : 7108702423 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

Which one of the following standards is of a comparative type?

1. Kellner's feeding standard
2. Thaer's feeding standard
3. Armsby's feeding standard
4. Morrison's feeding standard

Options :

- 7108709689. 1
- 7108709690. 2
- 7108709691. 3
- 7108709692. 4

Question Number : 84 Question Id : 7108702424 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

In Gross Protein Value estimation, the test protein is compared with

1. Casein protein
2. Egg protein
3. Meat protein
4. Albumin protein

Options :

- 7108709693. 1
- 7108709694. 2
- 7108709695. 3
- 7108709696. 4

Question Number : 85 Question Id : 7108702425 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Milk fever in cattle is a metabolic disorder related to calcium metabolism

Reason R: Feeding of high calcium diet in late pregnancy can prevent milk fever in cattle.

In light of the above statements, choose the **correct** answer from the options given below

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is **NOT** the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

- 7108709697. 1
- 7108709698. 2
- 7108709699. 3
- 7108709700. 4

Question Number : 86 Question Id : 7108702426 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Toxicity occurs in poultry due to feeding of which one of the following cakes?

1. Cottonseed cake
2. Soyabean meal
3. Ground nut cake
4. Linseed cake

Options :

- 7108709701. 1
- 7108709702. 2
- 7108709703. 3
- 7108709704. 4

Question Number : 87 Question Id : 7108702427 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The purpose of flushing ration in pigs is to increase

1. The milk yield
2. The body weight
3. The number of offsprings
4. The length of lactation period

Options :

- 7108709705. 1
- 7108709706. 2
- 7108709707. 3
- 7108709708. 4

Question Number : 88 Question Id : 7108702428 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The indicator used in *in-vitro* gas production test (Menke & Steinglass, 1979) is

1. Lignin
2. Resazurine
3. Methyl orange
4. Phenolphthalin

Options :

- 7108709709. 1
- 7108709710. 2
- 7108709711. 3
- 7108709712. 4

Question Number : 89 Question Id : 7108702429 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

On fat and moisture-free basis, an animal body contains how much ash in per cent?

1. 80%
2. 20%
3. 25%
4. 10%

Options :

- 7108709713. 1
- 7108709714. 2
- 7108709715. 3
- 7108709716. 4

Question Number : 90 Question Id : 7108702430 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In the proximate analysis of feed, which of the following expression is used to determine Nitrogen Free Extract?

[where NFE= Nitrogen Free Extract in terms of % of dry matter, EE= Ether extract, CP=Crude protein, CF=Crude fibre]

1. $NFE = 100 - (\% EE + \% CP + \% Ash + \% CF)$
2. $NFE = \% EE - (\% CP + \% Ash + \% CF)$
3. $NFE = \% Carbohydrate - \% EE$
4. $NFE = Dry\ matter - \% CP$

Options :

- 7108709717. 1
- 7108709718. 2
- 7108709719. 3
- 7108709720. 4

Question Number : 91 Question Id : 7108702431 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Catfish feed is preferentially produced by which of the following methods?

1. Pelleting
2. Grinding
3. Puffing
4. Extruding

Options :

- 7108709721. 1
- 7108709722. 2
- 7108709723. 3
- 7108709724. 4

Question Number : 92 Question Id : 7108702432 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I: Well preserved grass silages contains (g/Kg DM) lactic acid as the major preservative followed by ethanol, butyric acid and acetic acid.

Statement II: Well preserved maize silage contains the highest concentration of lactic acid followed by acetic acid and ethanol.

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are correct
2. Both Statement I and Statement II are incorrect
3. Statement I is correct but Statement II is incorrect
4. Statement I is incorrect but Statement II is correct

Options :

- 7108709725. 1
- 7108709726. 2
- 7108709727. 3
- 7108709728. 4

Question Number : 93 Question Id : 7108702433 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I: Legumes are more highly buffered than grass and more difficult to ensile satisfactorily.

Statement II: Wet crops are easy to ensile satisfactorily because of their increased moisture level.

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are correct
2. Both Statement I and Statement II are incorrect
3. Statement I is correct but Statement II is incorrect
4. Statement I is incorrect but Statement II is correct

Options :

7108709729. 1

7108709730. 2

7108709731. 3

7108709732. 4

Question Number : 94 Question Id : 7108702434 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Amino acid composition in protein fed to which animal has a critical effect on production?

1. Cattle
2. Sheep
3. Goat
4. Pig

Options :

7108709733. 1

7108709734. 2

7108709735. 3

7108709736. 4

Question Number : 95 Question Id : 7108702435 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The site of fermentative digestion in pig is

1. Reticulum
2. Crop
3. Caecum
4. Abomasum

Options :

7108709737. 1

7108709738. 2

7108709739. 3

7108709740. 4

Question Number : 96 Question Id : 7108702436 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

List I	List II
A. Starch equivalent	I. Fjord
B. Physiological fuel value	II. Kellner's
C. Hay equivalence	III. Atwater
D. Scandinavian	IV. Albrecht Thaer

Choose the correct answer from the options given below

1. A-II, B-III, C-IV, D-I
2. A-III, B-II, C-I, D-IV
3. A-IV, B-III, C-I, D-II
4. A-I, B-IV, C-II, D-III

Options :

- 7108709741. 1
- 7108709742. 2
- 7108709743. 3
- 7108709744. 4

Question Number : 97 Question Id : 7108702437 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

List I	List II
A. Microminerals	I. HPLC
B. Vitamins	II. GC (ECD detector)
C. Methane	III. AAS
D. SF6	IV. GC (FID detector)

Choose the correct answer from the options given below

1. A-I, B-III, C-II, D-IV
2. A-III, B-IV, C-II, D-I
3. A-III, B-I, C-IV, D-II
4. A-IV, B-III, C-II, D-I

Options :

7108709745. 1
7108709746. 2
7108709747. 3
7108709748. 4

Question Number : 98 Question Id : 7108702438 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Creep feeding is done in pig during

1. Pre-weaning period
2. Post-weaning period
3. Breeding period
4. Lactating period

Options :

7108709749. 1
7108709750. 2
7108709751. 3

7108709752. 4

Question Number : 99 Question Id : 7108702439 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

List I	List II
A. Antivitamin A	I. Sweet clover
B. Antivitamin E	II. Raw soybean
C. Antivitamin K	III. Raw Kidney bean
D. Antivitamin pyridoxine	IV. Linseed meal

Choose the correct answer from the options given below

1. A-II, B-III, C-I, D-IV
2. A-III, B-I, C-II, D-IV
3. A-IV, B-III, C-II, D-I
4. A-I, B-II, C-III, D-IV

Options :

7108709753. 1

7108709754. 2

7108709755. 3

7108709756. 4

Question Number : 100 Question Id : 7108702440 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The pectin index in soybean meal is

1. 100
2. 113
3. 156
4. 174

Options :

7108709757. 1
7108709758. 2
7108709759. 3
7108709760. 4

Question Number : 101 Question Id : 7108702441 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following are true for pelleting of feed?

- A. It improves the palatability of feed
- B. It reduces the bulkiness of feed
- C. The feed conversion ratio increases due to pelleting
- D. Pelleting of feed reduces the cost of production

Choose the correct answer from the options given below

1. A, B, and C only
2. A, B, and D only
3. A, B, C and D only
4. A and B only

Options :

7108709761. 1

7108709762. 2

7108709763. 3

7108709764. 4

Question Number : 102 Question Id : 7108702442 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

During the degradation of carbohydrate in the rumen,

- A. Major fatty acids produced are acetic acid, propionic acid & butyric acid.
- B. Acetate largely passes through the rumen to enter the bloodstream.
- C. Propionic acid is largely removed from portal blood by the liver.
- D. Acetate can be used directly for the synthesis of milk fat.
- E. Propionic acid is building block of milk protein.

Choose the correct answer from the options given below

- 1. A, B, C, D, E only
- 2. A, B, C, D only
- 3. A, B, C, E only
- 4. A, B, D, E only

Options :

7108709765. 1

7108709766. 2

7108709767. 3

7108709768. 4

Question Number : 103 Question Id : 7108702443 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

List I	List II
A. Phosphorus	I. Alkalosis
B. Chlorine	II. Swayback
C. Zinc	III. Pica
D. Copper	IV. Parakeratosis

Choose the correct answer from the options given below

1. A-II, B-III, C-I, D-IV
2. A-III, B-I, C-IV, D-II
3. A-I, B-IV, C-II, D-III
4. A-IV, B-II, C-III, D-I

Options :

- 7108709769. 1
- 7108709770. 2
- 7108709771. 3
- 7108709772. 4

Question Number : 104 Question Id : 7108702444 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

List I	List II
A. Rapeseed meal	I. Anagyrine
B. Lupins	II. Sesquiterpene lactone
C. Locoweeds	III. Erusic acid
D. Bitterweeds	IV. Swainsonine

Choose the correct answer from the options given below

1. A-IV, B-II, C-I, D-III
2. A-III, B-I, C-IV, D-II
3. A-II, B-III, C-I, D-IV
4. A-I, B-IV, C-II, D-III

Options :

7108709773. 1
7108709774. 2
7108709775. 3
7108709776. 4

Question Number : 105 Question Id : 7108702445 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In the case of poultry, in addition to ten indispensable amino acids, a growing chick also requires a dietary source of

1. Glycine
2. Alanine
3. Cysteine
4. Asparagine

Options :

7108709777. 1

7108709778. 2

7108709779. 3

7108709780. 4

Question Number : 106 Question Id : 7108702446 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Vital amine theory was proposed by

1. McCollum
2. Osborne and Mendel
3. Casimir Funk
4. Babcock

Options :

7108709781. 1

7108709782. 2

7108709783. 3

7108709784. 4

Question Number : 107 Question Id : 7108702447 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In which of the following species, Vitamin D2 and D3 do not have the same potency?

1. Cattle
2. Sheep
3. Poultry
4. Pigs

Options :

7108709785. 1

7108709786. 2

7108709787. 3

7108709788. 4

Question Number : 108 Question Id : 7108702448 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The best measure of assessing energy in poultry is

1. Gross energy
2. Digestible energy
3. Metabolizable energy
4. Net energy

Options :

7108709789. 1

7108709790. 2

7108709791. 3

7108709792. 4

Question Number : 109 Question Id : 7108702449 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Gross energy of feed is estimated using

1. Respiration chamber
2. Bomb calorimeter
3. Spectrophotometer
4. Muffle furnace

Options :

7108709793. 1

7108709794. 2

7108709795. 3

7108709796. 4

Question Number : 110 Question Id : 7108702450 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following statements are true?

- A. Low glucose level in dairy cows occurs when milk has a high content of SNF.
- B. Beta-hydroxybutyrate level in dairy cows in early lactation are higher than cows in mid-lactation
- C. Low levels of NEFA in the blood reflects the degree of undernutrition or negative energy balance.
- D. When the intake of rumen degradable protein remains relatively constant, plasma urea may be inversely related to intake of dietary energy.
- E. Glucagon is a hyperglycaemic hormone which promotes glycolysis and lipolysis

Choose the correct answer from the options given below:

- 1. A and B only
- 2. B and E only
- 3. B and D only
- 4. A and C only

Options :

- 7108709797. 1
- 7108709798. 2
- 7108709799. 3
- 7108709800. 4

Question Number : 111 Question Id : 7108702451 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Identify correct statements, specially for poultry

- A. Threonine is the first limiting amino acids for broilers
- B. Methionine is second limiting amino acid in the broiler on conventional corn-soy based diets
- C. Ideal protein concept plays important role for precision protein nutrition
- D. Methionine has no role in increasing cellular immunity.
- E. Threonine supplementation has a role in affecting villi.

Choose the correct answer from the options given below:

- 1. A and B only
- 2. C and E only
- 3. B and D only
- 4. A and E only

Options :

- 7108709801. 1
- 7108709802. 2
- 7108709803. 3
- 7108709804. 4

Question Number : 112 Question Id : 7108702452 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Deficiency of which vitamin causes pellagra disease?

- 1. Biotin
- 2. Pantothenic acid
- 3. Niacin
- 4. Pyridoxine

Options :

7108709805. 1

7108709806. 2

7108709807. 3

7108709808. 4

Question Number : 113 Question Id : 7108702453 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Deficiency of which element causes frizzled feathers in chicks?

1. Cobalt

2. Zinc

3. Copper

4. Iodine

Options :

7108709809. 1

7108709810. 2

7108709811. 3

7108709812. 4

Question Number : 114 Question Id : 7108702454 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Eight naturally occurring forms of Vitamin E are divided into two groups according to whether the side chain of the molecule is saturated or unsaturated

Statement II: The unsaturated form of the Vitamins have very little if any, vitamin activity

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are correct
2. Both Statement I and Statement II are incorrect
3. Statement I is correct but Statement II is incorrect
4. Statement I is incorrect but Statement II is correct

Options :

7108709813. 1

7108709814. 2

7108709815. 3

7108709816. 4

Question Number : 115 Question Id : 7108702455 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In Cornell Net Carbohydrate and Protein (CNCP), carbohydrate fraction B2 is represented by which of the following constituents?

1. Pectin
2. Beta-glucans
3. Lignin free neutral detergent fibre
4. Protein free acid detergent fibre

Options :

7108709817. 1

7108709818. 2

7108709819. 3

7108709820. 4

Question Number : 116 Question Id : 7108702456 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Saliva contains mucin, inorganic salts, lysozyme and alpha-amylase. Which of the following animals may lack alpha-amylase?

- A. Horse
- B. Cat
- C. Dog
- D. Man

Choose the correct answer from the options given below

- 1. A, B and C only
- 2. A only
- 3. C and D only
- 4. A, B, C and D only

Options :

7108709821. 1

7108709822. 2

7108709823. 3

7108709824. 4

Question Number : 117 Question Id : 7108702457 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following are well-known interrelations in mineral nutrition?

- A. Calcium and zinc
- B. Calcium and phosphorus
- C. Copper and molybdenum
- D. Copper, molybdenum and sulphur

Choose the **correct** answer from the options given below

- 1. A and B only
- 2. A, B, C and D only
- 3. A and C only
- 4. A, B and C only

Options :

- 7108709825. 1
- 7108709826. 2
- 7108709827. 3
- 7108709828. 4

Question Number : 118 Question Id : 7108702458 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Energy requirement (Kcal/Kg as fed) basis for egg-type pullets during 8-16 weeks of age (per ICAR, 2013) is

- 1. 2700
- 2. 2600
- 3. 2800
- 4. 2750

Options :

- 7108709829. 1
- 7108709830. 2
- 7108709831. 3
- 7108709832. 4

Question Number : 119 Question Id : 7108702459 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Energy requirement ME (Kcal/Kg as fed basis) for broiler breeder up to 4 weeks of age (per ICAR, 2013) is

- 1. 2700
- 2. 2800
- 3. 2900
- 4. 2950

Options :

- 7108709833. 1
- 7108709834. 2
- 7108709835. 3
- 7108709836. 4

Question Number : 120 Question Id : 7108702460 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Daily methionine requirement (mg/ kg $W^{0.75}$) for maintenance of finisher broiler (4 - 6, 7 weeks, per ICAR 2013) is

- 1. 153
- 2. 163
- 3. 173
- 4. 193

Options :

7108709837. 1

7108709838. 2

7108709839. 3

7108709840. 4