

National Testing Agency

Question Paper Name :	Animal Genetics and Breeding 17th September Shift 2
Subject Name :	Animal Genetics and Breeding
Creation Date :	2021-09-17 18:54:26
Duration :	120
Total Marks :	480
Display Marks:	Yes

Animal Genetics and Breeding

Group Number :	1
Group Id :	19088991
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 :	190889197
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889237
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 19088910222 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Which of the following is the device used to measure the power and speed of the wind?

1. Avometer
2. Anemometer
3. Airometer
4. Aviontimeter

Options :

19088940781. 1

19088940782. 2

19088940783. 3

19088940784. 4

Question Number : 2 Question Id : 19088910223 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Optical fibre used the concept of which of the following?

1. Reflection
2. Refraction
3. Total internal reflection
4. Total internal refraction

Options :

- 19088940785. 1
- 19088940786. 2
- 19088940787. 3
- 19088940788. 4

Question Number : 3 Question Id : 19088910224 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Yellow vein mosaic is the viral disease of which of the following plants?

- 1. Ladyfinger
- 2. Papaya
- 3. Sugarcane
- 4. Banana

Options :

- 19088940789. 1
- 19088940790. 2
- 19088940791. 3
- 19088940792. 4

Question Number : 4 Question Id : 19088910225 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following organ(s) is affected by Mumps disease?

- 1. Entire body
- 2. Skin
- 3. Eye
- 4. Parotid

Options :

- 19088940793. 1
- 19088940794. 2
- 19088940795. 3

19088940796. 4

Question Number : 5 Question Id : 19088910226 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the chemical name of vitamin B₂?

1. Riboflavin
2. Calciferol
3. Pyridoxin
4. Niacin

Options :

19088940797. 1

19088940798. 2

19088940799. 3

19088940800. 4

Question Number : 6 Question Id : 19088910227 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not the input unit of the computer?

1. Mouse
2. Keyboard
3. Screen
4. Scanner

Options :

19088940801. 1

19088940802. 2

19088940803. 3

19088940804. 4

Question Number : 7 Question Id : 19088910228 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The digital computer operates on which of the following principle?

1. Measurement
2. Calculation
3. Logical
4. Electrification

Options :

19088940805. 1

19088940806. 2

19088940807. 3

19088940808. 4

Question Number : 8 Question Id : 19088910229 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The non-cooperation movement of Gandhiji was launched in which of the following year?

1. 1915
2. 1922
3. 1920
4. 1930

Options :

19088940809. 1

19088940810. 2

19088940811. 3

19088940812. 4

Question Number : 9 Question Id : 19088910230 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

An Islamic revivalist movement named Wahabi movement was founded by which of the following person?

1. Sian Saheb
2. Syed Ahmed
3. Haji Shariat-Allah
4. DaduMian

Options :

19088940813. 1

19088940814. 2

19088940815. 3

19088940816. 4

Question Number : 10 Question Id : 19088910231 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is considered as the “Magna Carta of England Education in India”?

1. Hunter education commission
2. Lord Macaulay’s Minute
3. Wood’s Despatch
4. Thomas Babington Macaulay

Options :

19088940817. 1

19088940818. 2

19088940819. 3

19088940820. 4

Question Number : 11 Question Id : 19088910232 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following nutrient does not come under the ambit of 'macro-nutrients in Soil Health Card?

1. Nitrogen
2. Zinc
3. Phosphorous
4. Potassium

Options :

19088940821. 1

19088940822. 2

19088940823. 3

19088940824. 4

Question Number : 12 Question Id : 19088910233 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Cole crops, root crops and legumes come under the ambit of which of the following?

1. Olericulture
2. Pomology
3. Viticulture
4. Arboriculture

Options :

19088940825. 1

19088940826. 2

19088940827. 3

19088940828. 4

Question Number : 13 Question Id : 19088910234 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The study of individual trees, shrubs, vines, and perennial woody plants is known as which of the following?

1. Turf management
2. Arboriculture
3. Pomology
4. Viticulture

Options :

19088940829. 1

19088940830. 2

19088940831. 3

19088940832. 4

Question Number : 14 Question Id : 19088910235 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ministry is implementing MIDH (Mission for Integrated Development of Horticulture) with effect from which of the following year?

1. 2012-13
2. 2019-20
3. 2015-16
4. 2014-15

Options :

19088940833. 1

19088940834. 2

19088940835. 3

19088940836. 4

Question Number : 15 Question Id : 19088910236 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The interaction of soils with living things, particularly plants are well known as which of the following?

1. Edaphology
2. Pedology
3. Soil zoology
4. Pedogenesis

Options :

19088940837. 1

19088940838. 2

19088940839. 3

19088940840. 4

Question Number : 16 Question Id : 19088910237 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following systems has also incorporated social aspects in itself?

1. Landscaping
2. Permaculture
3. Horticulture
4. Forest gardening

Options :

19088940841. 1

19088940842. 2

19088940843. 3

19088940844. 4

Question Number : 17 Question Id : 19088910238 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What do you term the phenomenon whereby the specific gene is added to the plant for producing a desirable phenotype?

1. Genetic manipulation
2. Genetic recombination
3. Genetic modification
4. Genetic hybridisation

Options :

19088940845. 1

19088940846. 2

19088940847. 3

19088940848. 4

**Question Number : 18 Question Id : 19088910239 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

What is the focus of the participatory plant breeding program?

1. Scientists
2. Plants
3. Environment
4. Farmers

Options :

19088940849. 1

19088940850. 2

19088940851. 3

19088940852. 4

**Question Number : 19 Question Id : 19088910240 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

How do you term the form of agriculture, in which, industrialized production of crops and animal products takes place?

1. Manufactured agriculture
2. Modern agriculture
3. Industrial agriculture
4. Mechanistic agriculture

Options :

19088940853. 1

19088940854. 2

19088940855. 3

19088940856. 4

Question Number : 20 Question Id : 19088910241 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Micro-irrigation fund of Rs. 5.000 crore has been placed with which of the following organization?

1. NABARD
2. IDBI
3. SBI
4. RRBs

Options :

19088940857. 1

19088940858. 2

19088940859. 3

19088940860. 4

Part B Core : Veterinary and Animal Sciences-I

Section Id : 190889198

Section Number : 2

Section type : Online

Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889238
Question Shuffling Allowed :	Yes

**Question Number : 21 Question Id : 19088910242 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

The greenish black discoloration in hard cooked eggs is due to formation of

- | | |
|---------------------------------|---------------------------------|
| (1) S-conalbumin | (2) FeS formation |
| (3) Break down of Avidin-biotin | (4) Breakdown of Crypto xanthin |

Options :

19088940861. 1

19088940862. 2

19088940863. 3

19088940864. 4

**Question Number : 22 Question Id : 19088910243 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Meat is deficient in

- | | |
|-------------|-----------------------|
| (1) Iron | (2) Zinc |
| (3) Calcium | (4) Vitamin B-complex |

Options :

19088940865. 1

19088940866. 2

19088940867. 3

19088940868. 4

**Question Number : 23 Question Id : 19088910244 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Another name for disease of soiled hands is

- | | |
|------------------|------------------------|
| (1) Measly beef | (2) Measly pork |
| (3) Hydatid Cyst | (4) Diphylo bothriasis |

Options :

19088940869. 1

19088940870. 2

19088940871. 3

19088940872. 4

**Question Number : 24 Question Id : 19088910245 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

After picking and pinning of poultry carcasses are singed to remove

- | | |
|-------------------|-----------------|
| (1) Tail feathers | (2) Pilofluemes |
| (3) Epidermis | (4) Head |

Options :

19088940873. 1

19088940874. 2

19088940875. 3

19088940876. 4

**Question Number : 25 Question Id : 19088910246 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Ricotta Cheese is prepared from

- | | |
|-------------------|-----------------|
| (1) Cow – Milk | (2) Goat – Milk |
| (3) Cheese – Whey | (4) Mare Milk |

Options :

- 19088940877. 1
- 19088940878. 2
- 19088940879. 3
- 19088940880. 4

Question Number : 26 Question Id : 19088910247 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a subjective method of quality assessment of food?

- | | |
|------------------------------|--------------------|
| (1) Paired Difference Test | (2) Threshold Test |
| (3) Texture profile analysis | (4) Triangle Test |

Options :

- 19088940881. 1
- 19088940882. 2
- 19088940883. 3
- 19088940884. 4

Question Number : 27 Question Id : 19088910248 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The foaming capacity is highest amongst egg protein.

- | | |
|---------------|------------------|
| (1) Ovomucin | (2) Ovoglobulins |
| (3) Ovalbumin | (4) Ovomuroid |

Options :

19088940885. 1

19088940886. 2

19088940887. 3

19088940888. 4

**Question Number : 28 Question Id : 19088910249 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is a common method of preservation of Shell eggs?

- | | |
|-----------------|-------------------------|
| (1) Irradiation | (2) Thermostabilization |
| (3) Freezing | (4) Canning |

Options :

19088940889. 1

19088940890. 2

19088940891. 3

19088940892. 4

**Question Number : 29 Question Id : 19088910250 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(A) Staphylococcus	(I) Diacetyl
(B) Pseudomonas	(II) Gram positive
(C) Leuconostoc	(III) Gram negative
(D) Flavobacterium	(IV) Discolouration

Choose the correct answer from the options given below :

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

Options :

- 19088940893. 1
- 19088940894. 2
- 19088940895. 3
- 19088940896. 4

**Question Number : 30 Question Id : 19088910251 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Amber box mentioned in WTO agreement deals with

- (1) Subsidies on agriculture
- (2) Domestic Support System
- (3) Production Limit Measures
- (4) Geographical indicators of agriculture produce

Options :

- 19088940897. 1
- 19088940898. 2
- 19088940899. 3
- 19088940900. 4

**Question Number : 31 Question Id : 19088910252 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Leading state in poultry production which is considered to be the poultry capital of the country

- (1) Maharastra
- (2) Tamil Nadu
- (3) Haryana
- (4) Andra Pradesh

Options :

- 19088940901. 1
- 19088940902. 2

19088940903. 3

19088940904. 4

Question Number : 32 Question Id : 19088910253 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Kadaknath is the breed of poultry from

(1) MP

(2) UP

(3) AP

(4) Gujarat

Options :

19088940905. 1

19088940906. 2

19088940907. 3

19088940908. 4

Question Number : 33 Question Id : 19088910254 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The storage temperature of egg is

(1) 55 °F

(2) 65 °F

(3) 75 °F

(4) 85 °F

Options :

19088940909. 1

19088940910. 2

19088940911. 3

19088940912. 4

Question Number : 34 Question Id : 19088910255 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Castrated male of sheep is known as

- | | |
|-----------|-------------------|
| (1) Stag | (2) Wedder/Wether |
| (3) Capon | (4) Bullock |

Options :

19088940913. 1

19088940914. 2

19088940915. 3

19088940916. 4

Question Number : 35 Question Id : 19088910256 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The meat of goat is known as

- | | |
|------------|------------|
| (1) Beef | (2) Pork |
| (3) Mutton | (4) Chevon |

Options :

19088940917. 1

19088940918. 2

19088940919. 3

19088940920. 4

Question Number : 36 Question Id : 19088910257 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Name of National animal of India

- | | |
|--------------|-------------|
| (1) Lion | (2) Tiger |
| (3) Elephant | (4) Cheetah |

Options :

- 19088940921. 1
- 19088940922. 2
- 19088940923. 3
- 19088940924. 4

Question Number : 37 Question Id : 19088910258 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Wild life week is celebrated every year

- | | |
|------------------------|-------------------------|
| (1) October First Week | (2) March First Week |
| (3) August First Week | (4) December Third Week |

Options :

- 19088940925. 1
- 19088940926. 2
- 19088940927. 3
- 19088940928. 4

Question Number : 38 Question Id : 19088910259 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The Chromosome number of Swamp buffalo

- | | |
|--------|--------|
| (1) 54 | (2) 48 |
| (3) 60 | (4) 56 |

Options :

- 19088940929. 1
- 19088940930. 2
- 19088940931. 3

19088940932. 4

Question Number : 39 Question Id : 19088910260 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The female animal with its offspring is known as

- | | |
|------------------|-------------|
| (1) Steer | (2) Bullock |
| (3) Calf at foot | (4) Heifer |

Options :

19088940933. 1

19088940934. 2

19088940935. 3

19088940936. 4

Question Number : 40 Question Id : 19088910261 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The most successful applied reproductive technology in dairy husbandry.

- | | |
|---------------------|-----------------------------|
| (1) Cloning | (2) Artificial Insemination |
| (3) Embryo transfer | (4) In vitro fertilization |

Options :

19088940937. 1

19088940938. 2

19088940939. 3

19088940940. 4

Question Number : 41 Question Id : 19088910262 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following Chicken breed has feathers on their shank?

- | | |
|-------------------|------------|
| (1) Plymouth Rock | (2) Brahma |
| (3) Minorca | (4) Sussex |

Options :

19088940941. 1

19088940942. 2

19088940943. 3

19088940944. 4

**Question Number : 42 Question Id : 19088910263 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements.

Statement I: The chromosome, (2N) number of pheasant is 82.

Statement II: The diploid chromosome number in Pea-fowl, Gosse and Muscovy is equal

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

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is true but Statement II is false
- (4) Statement I is false but Statement II is true

Options :

19088940945. 1

19088940946. 2

19088940947. 3

19088940948. 4

**Question Number : 43 Question Id : 19088910264 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

The domestic ducks belongs to one of the following Genus.

- | | |
|------------|-------------|
| (1) Gallus | (2) Anas |
| (3) Aser | (4) Antidae |

Options :

19088940949. 1

19088940950. 2

19088940951. 3

19088940952. 4

Question Number : 44 Question Id : 19088910265 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In poultry, cost and availability of which of these feed ingredients, determines the feed cost.

- (A) Maize
- (B) Soyabean
- (C) Rice bran
- (D) Wheat bran
- (E) Feed Additives

Choose the correct answer from the options given below:

- | | |
|----------------------|----------------------|
| (1) (A) only | (2) (C) only |
| (3) (B) and (E) only | (4) (A) and (B) only |

Options :

19088940953. 1

19088940954. 2

19088940955. 3

19088940956. 4

Question Number : 45 Question Id : 19088910266 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Better Feed Conversion Ratio (FCR) is achieved at higher energy concentration of one of the following in poultry diet.

- (A) Gross Energy
- (B) Digestible Energy
- (C) Metabolisable energy
- (D) Net energy
- (E) Heat increment

Choose the correct answer from the options given below:

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

Options :

- 19088940957. 1
- 19088940958. 2
- 19088940959. 3
- 19088940960. 4

Question Number : 46 Question Id : 19088910267 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

One of the following body organ in chicken is known as voice box.

- (1) Larynx
- (2) Trachea
- (3) Air sacs
- (4) Syrinx

Options :

- 19088940961. 1
- 19088940962. 2
- 19088940963. 3
- 19088940964. 4

Question Number : 47 Question Id : 19088910268 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following chicken breeds has 'pea' type of comb:

- (A) Australorp
- (B) Brahma
- (C) Cornish
- (D) Rhode Island Red

Choose the most appropriate answer from the options given below:

- (1) (A) and (B) only
- (2) (B) and (C) only
- (3) (C) and (D) only
- (4) (A) and (D) only

Options :

- 19088940965. 1
- 19088940966. 2
- 19088940967. 3
- 19088940968. 4

Question Number : 48 Question Id : 19088910269 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In poultry species, which of the following organ is considered to be very sensitive to periods of feed deprivation.

- (1) Kidney
- (2) Heart
- (3) Thymus
- (4) Adrenal

Options :

- 19088940969. 1
- 19088940970. 2
- 19088940971. 3
- 19088940972. 4

Question Number : 49 Question Id : 19088910270 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

One of the following form of energy is a mere waste and also exerts stress on birds.

- | | |
|-----------------------|--------------------|
| (1) Digestible energy | (2) Faecal Energy |
| (3) Heat Increment | (4) Urinary energy |

Options :

19088940973. 1

19088940974. 2

19088940975. 3

19088940976. 4

Question Number : 50 Question Id : 19088910271 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of these following system of rearing is practised in Japanese Quail.

- | | |
|----------------------|---------------------------|
| (1) Intensive system | (2) Semi-Extensive system |
| (3) Extensive system | (4) Semi-Intensive system |

Options :

19088940977. 1

19088940978. 2

19088940979. 3

19088940980. 4

Question Number : 51 Question Id : 19088910272 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Banni is one of the registered breed of which species in India.

- | | |
|------------|-------------|
| (1) Cattle | (2) Buffalo |
| (3) Goat | (4) Camel |

Options :

19088940981. 1

19088940982. 2

19088940983. 3

19088940984. 4

**Question Number : 52 Question Id : 19088910273 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which breed of sheep has high quality meat?

(1) Mandya

(2) Chokla

(3) Magra

(4) Mecheri

Options :

19088940985. 1

19088940986. 2

19088940987. 3

19088940988. 4

**Question Number : 53 Question Id : 19088910274 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Under Breed registration system of India, a new breed of cattle or buffalo will be registered if it has minimum number of

(1) 100

(2) 1000

(3) 10000

(4) 100000

Options :

19088940989. 1

19088940990. 2

19088940991. 3

19088940992. 4

Question Number : 54 Question Id : 19088910275 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In India, which species has maximum number of breed registered at present (2021).

- | | |
|------------|-------------|
| (1) Cattle | (2) Buffalo |
| (3) Sheep | (4) Goat |

Options :

19088940993. 1

19088940994. 2

19088940995. 3

19088940996. 4

Question Number : 55 Question Id : 19088910276 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The buffalo breed of India Famous for high fat percentage in milk, is

- | | |
|-------------|----------------|
| (1) Murrah | (2) Juparabudi |
| (3) Mehsana | (4) Bhadawari |

Options :

19088940997. 1

19088940998. 2

19088940999. 3

19088941000. 4

Question Number : 56 Question Id : 19088910277 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In the year 2018-19, the people of which state had maximum per capita availability of milk in India.

- | | |
|---------------|-------------|
| (1) Haryana | (2) Gujarat |
| (3) Rajasthan | (4) Punjab |

Options :

19088941001. 1

19088941002. 2

19088941003. 3

19088941004. 4

Question Number : 57 Question Id : 19088910278 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements.

Statement I : Bargur is a registered breed of cattle.

Statement II : Bargur is a registered breed of buffalo

In the 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 :

19088941005. 1

19088941006. 2

19088941007. 3

19088941008. 4

Question Number : 58 Question Id : 19088910279 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements.

Statement I: Chengthagi is a registered breed of Goat

Statement II: Chengthagi is a registered breed of sheep

In the 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 :

19088941009. 1

19088941010. 2

19088941011. 3

19088941012. 4

Question Number : 59 Question Id : 19088910280 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements.

Statement I: Buffalo population has increased in India, since the year 1982.

Statement II: Crossbreed cattle populations has increased in India, since the year 1982.

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

- (1) Both statement I and Statement II are true
- (2) Both statement I and statement II are false
- (3) Statement I is true but statement II is false
- (4) Statement I is false but statement II is true

Options :

19088941013. 1

19088941014. 2

19088941015. 3

19088941016. 4

Question Number : 60 Question Id : 19088910281 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Choose the country which has highest number of cattle head (population) in the world.

- | | |
|------------|--------------|
| (1) Brazil | (2) India |
| (3) China | (4) Pakistan |

Options :

- 19088941017. 1
- 19088941018. 2
- 19088941019. 3
- 19088941020. 4

Question Number : 61 Question Id : 19088910282 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Wheat staggers is due to deficiency of

- | | |
|---------------|----------------|
| (1) Calcium | (2) Phosphorus |
| (3) Magnesium | (4) Maganese |

Options :

- 19088941021. 1
- 19088941022. 2
- 19088941023. 3
- 19088941024. 4

Question Number : 62 Question Id : 19088910283 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Hydroxylation of proline to hydroxyproline involves.

- | | |
|---------------|---------------|
| (1) Vitamin A | (2) Vitamin E |
| (3) Vitamin C | (4) Vitamin K |

Options :

19088941025. 1

19088941026. 2

19088941027. 3

19088941028. 4

Question Number : 63 Question Id : 19088910284 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not an example of anabolic hormone?

- | | |
|------------------|---------------|
| (1) Somatotropin | (2) Thyroxine |
| (3) Oestrogens | (4) Androgens |

Options :

19088941029. 1

19088941030. 2

19088941031. 3

19088941032. 4

Question Number : 64 Question Id : 19088910285 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Two stage technique of in vitro digestibility has given by

- | | |
|---------------------------------|-------------------------|
| (1) Tilley and Terry | (2) Menke and steingass |
| (3) Czerkawski and Breckenridge | (4) Henry and Vansoest |

Options :

19088941033. 1

19088941034. 2

19088941035. 3

19088941036. 4

Question Number : 65 Question Id : 19088910286 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Type-I mineral mixture should have calcium percent by mass (minimum) as per BIS specifications.

(1) 20

(2) 22

(3) 18

(4) 23

Options :

19088941037. 1

19088941038. 2

19088941039. 3

19088941040. 4

Question Number : 66 Question Id : 19088910287 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Surcose is formed from

(1) One molecule of α -D glucose + 1 molecule of α -D fructose

(2) One molecule of β -D glucose + 1 molecule of β -D fructose

(3) One molecule of α -D glucose + 1 molecule of β -D fructose

(4) One molecule of β -D glucose + 1 molecule of α -D fructose

Options :

19088941041. 1

19088941042. 2

19088941043. 3

19088941044. 4

**Question Number : 67 Question Id : 19088910288 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Rumen protozoa was discovered by

(1) Hungate and Delafond

(2) Groby and Orpin

(3) Orpin and Hungate

(4) Gruby and Delafond

Options :

19088941045. 1

19088941046. 2

19088941047. 3

19088941048. 4

**Question Number : 68 Question Id : 19088910289 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Oat hay poisoning is caused by

(1) Nitrate

(2) Saponin

(3) Tannin

(4) Gossypol

Options :

19088941049. 1

19088941050. 2

19088941051. 3

19088941052. 4

Question Number : 69 Question Id : 19088910290 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not a byproduct of sugarcane industry?

- | | |
|---------------|-----------------|
| (1) Bagasse | (2) Filter coke |
| (3) Press mud | (4) Husk |

Options :

19088941053. 1

19088941054. 2

19088941055. 3

19088941056. 4

Question Number : 70 Question Id : 19088910291 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Flieg index is commonly used method for quality evaluation in

- | | |
|--------------|-------------|
| (1) Hay | (2) Haylage |
| (3) Molasses | (4) Silage |

Options :

19088941057. 1

19088941058. 2

19088941059. 3

19088941060. 4

Part C : Animal Genetics and Breeding

Section Id : 190889199

Section Number : 3

Section type : Online

Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889239
Question Shuffling Allowed :	Yes

**Question Number : 71 Question Id : 19088910292 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

During the year 2018-19, India ranked in milk production in the world as

- | | |
|-----------|------------|
| (1) First | (2) Second |
| (3) Third | (4) Fourth |

Options :

19088941061. 1

19088941062. 2

19088941063. 3

19088941064. 4

**Question Number : 72 Question Id : 19088910293 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Under National Kamdhenu breeding, two centers in India were established. Choose the state where they were established

- (1) Andhra Pradesh and Madhya Pradesh
- (2) Uttar Pradesh and Haryana
- (3) Rajasthan and Gujarat
- (4) Tamilnadu and Kerala

Options :

- 19088941065. 1
- 19088941066. 2
- 19088941067. 3
- 19088941068. 4

**Question Number : 73 Question Id : 19088910294 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

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) : Inbreeding causes an increase in the frequencies of homozygotes genotypes.

Reason (R) : Inbreeding causes decrease in the frequencies of heterozygotes genotypes.

In the 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 and (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 :

- 19088941069. 1
- 19088941070. 2
- 19088941071. 3
- 19088941072. 4

**Question Number : 74 Question Id : 19088910295 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

The stage of meiosis in which chromosomes pairs and cross over is

- (1) Prophase-I
- (2) Metaphase-I
- (3) Prophase-II
- (4) Anaphase-II

Options :

19088941073. 1

19088941074. 2

19088941075. 3

19088941076. 4

Question Number : 75 Question Id : 19088910296 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

As per the FAO (2013), risk status, if a breed does not have any/no breeding male or female and available cryo-conserved genetic material is insufficient for breed reconstitution, known as

- | | |
|----------------|----------------|
| (1) Extinct | (2) Critical |
| (3) Endangered | (4) Vulnerable |

Options :

19088941077. 1

19088941078. 2

19088941079. 3

19088941080. 4

Question Number : 76 Question Id : 19088910297 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which component of transcribed RNA in eukaryotes is present in the initial transcript but is removed before translation occurs?

- (1) Intron
- (2) 3' Poly A tail
- (3) Ribosome binding site
- (4) Codon coding for the protein to be produced

Options :

19088941081. 1

19088941082. 2

19088941083. 3

19088941084. 4

Question Number : 77 Question Id : 19088910298 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The haploid number of chromosome in cat is

- | | |
|--------|--------|
| (1) 28 | (2) 30 |
| (3) 32 | (4) 36 |

Options :

19088941085. 1

19088941086. 2

19088941087. 3

19088941088. 4

Question Number : 78 Question Id : 19088910299 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : In India, Pigs were slaughtered more than its number (population) in the year 2019.

Statement II : In India, Goats were slaughtered more than its number (population) in the year 2019.

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

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is true but Statement II is false
- (4) Statement I is false but Statement II is true

Options :

19088941089. 1

19088941090. 2

19088941091. 3

19088941092. 4

Question Number : 79 Question Id : 19088910300 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

As per the Livestock-census (2019), which of the following species has maximum number (population) in India

- | | |
|------------|-------------|
| (1) Cattle | (2) Buffalo |
| (3) Sheep | (4) Goat |

Options :

19088941093. 1

19088941094. 2

19088941095. 3

19088941096. 4

Question Number : 80 Question Id : 19088910301 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What will be the inbreeding coefficient in the offspring born to marriage between uncle and niece?

- | | |
|-----------|------------|
| (1) $1/2$ | (2) $1/4$ |
| (3) $1/8$ | (4) $1/16$ |

Options :

19088941097. 1

19088941098. 2

19088941099. 3

19088941100. 4

Question Number : 81 Question Id : 19088910302 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Nari' is a registered breed of which species

- (1) Cattle (2) Buffalo
(3) Sheep (4) Goat

Options :

19088941101. 1

19088941102. 2

19088941103. 3

19088941104. 4

Question Number : 82 Question Id : 19088910303 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Kaunayen' is a breed of which species

- (1) Sheep (2) Poultry
(3) Pig (4) Equine

Options :

19088941105. 1

19088941106. 2

19088941107. 3

19088941108. 4

Question Number : 83 Question Id : 19088910304 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Assuming Hardy – Weinberg equilibrium, the genotype frequency of heterozygotes, if the frequency of two alleles at the gene being studied are 0.7 and 0.3, will be

- (1) 0.49 (2) 0.21
(3) 0.09 (4) 0.42

Options :

- 19088941109. 1
- 19088941110. 2
- 19088941111. 3
- 19088941112. 4

**Question Number : 84 Question Id : 19088910305 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

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) : Inbreeding increase the probability that a offspring will inherit the same genes from both their parents.

Reason (R) : Inbreeding increase the hetrozygosity in a population.

In the 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 and (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 :

- 19088941113. 1
- 19088941114. 2
- 19088941115. 3
- 19088941116. 4

**Question Number : 85 Question Id : 19088910306 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

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) : BLUP, method of sire-evaluation account selection bias.

Reason (R) : BLUP method of sire-evaluation account culling bias.

In light of the above statements, choose the most appropriate 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 and (R) is NOT the correct explanation of (A)
- (3) (A) is correct but (R) is not correct
- (4) (A) is not correct but (R) is correct

Options :

19088941117. 1

19088941118. 2

19088941119. 3

19088941120. 4

Question Number : 86 Question Id : 19088910307 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Intra-sire regression of offspring on Dam estimates

- (1) Heritability of trait
- (2) Repeatability of a trait
- (3) Half of the heritability of the trait
- (4) Twice of the heritability of the trait

Options :

19088941121. 1

19088941122. 2

19088941123. 3

19088941124. 4

Question Number : 87 Question Id : 19088910308 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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) : The number of piglets in a Litter is known as threshold character.

Reason (R) : Milk production in buffalo is known as polygenic trait.

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 and (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 :

19088941125. 1

19088941126. 2

19088941127. 3

19088941128. 4

Question Number : 88 Question Id : 19088910309 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Inbreeding coefficient is maximum in which of the following mating system

- | | |
|------------------------|------------------------------|
| (1) Full-sib mating | (2) Half sib mating |
| (3) Full cousin mating | (4) Grad-six daughter mating |

Options :

19088941129. 1

19088941130. 2

19088941131. 3

19088941132. 4

Question Number : 89 Question Id : 19088910310 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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 a population, frequencies of all genotypes at a locus together add up to infinity.

Reason (R) : In a population, frequencies of all genotypes at a locus together add up to unity only.

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 and (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 :

19088941133. 1

19088941134. 2

19088941135. 3

19088941136. 4

Question Number : 90 Question Id : 19088910311 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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) : Migration is one of the cause to change gene frequency in a population.

Reason (R) : Mutation is one of the cause to change gene frequency in a population.

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 and (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 :

19088941137. 1

19088941138. 2

19088941139. 3

19088941140. 4

Question Number : 91 Question Id : 19088910312 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : In segregation of polygenes F_1 (first generation) is more variable than the F_2 (second generation)

Statement II : In segregation of polygenes F_2 (second generation) is more variable than F_1 (first generation)

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 :

19088941141. 1

19088941142. 2

19088941143. 3

19088941144. 4

Question Number : 92 Question Id : 19088910313 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What will be the heritability estimate, when regression of offspring on father is 0.21, assuming that resemblance due to environment or dominance is negligible?

- | | |
|----------|----------|
| (1) 0.2 | (2) 0.42 |
| (3) 0.63 | (4) 0.84 |

Options :

19088941145. 1

19088941146. 2

19088941147. 3

19088941148. 4

Question Number : 93 Question Id : 19088910314 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What will be the heritability, when the correlation of full sibs is 0.34, assuming that resemblance due to environment or dominance is negligible?

- (1) 0.17 (2) 0.34
(3) 0.51 (4) 0.68

Options :

19088941149. 1

19088941150. 2

19088941151. 3

19088941152. 4

Question Number : 94 Question Id : 19088910315 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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) : Selection is most effective at intermediate gene frequency.

Reason (R) : Selection for a recession gene is ineffective when recessive alleles are rare.

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 and (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 :

19088941153. 1

19088941154. 2

19088941155. 3

19088941156. 4

Question Number : 95 Question Id : 19088910316 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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) : Selection index method for selection of individual is more efficient than the tandem method.

Reason (R) : Independent culling method for selection of individual is more efficient than the selection index.

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

- (1) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are correct and (R) is NOT the correct explanation of (A)
- (3) (A) is correct but (R) is not correct
- (4) (A) is not correct but (R) is correct

Options :

19088941157. 1

19088941158. 2

19088941159. 3

19088941160. 4

Question Number : 96 Question Id : 19088910317 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Genetic gain / Response to selection is not a function of

- (1) Selection intensity
- (2) Mean of the trait
- (3) Phenotypic standard deviation of a trait
- (4) h^2 of the trait

Options :

19088941161. 1

19088941162. 2

19088941163. 3

19088941164. 4

Question Number : 97 Question Id : 19088910318 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements :

Statement I : QTL analysis is used to identify RNA polymerase binding sites

Statement II : QTL analysis is used to identify chromosome regions associated with a complex trait in a genetic cross

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 :

19088941165. 1

19088941166. 2

19088941167. 3

19088941168. 4

Question Number : 98 Question Id : 19088910319 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The genetic covariance of offspring and one of the parent is equal to

- | | |
|---|---|
| (1) Additive Genetic Variance | (2) $\frac{1}{2}$ additive Genetic Variance |
| (3) $\frac{1}{4}$ Additive Genetic Variance | (4) $\frac{1}{8}$ additive Genetic Variance |

Options :

19088941169. 1

19088941170. 2

19088941171. 3

19088941172. 4

Question Number : 99 Question Id : 19088910320 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The best breeding strategies for enhancing milk production in milch breeds of India, is

- | | |
|------------------------|----------------|
| (1) Selective breeding | (2) Grading up |
| (3) Hybridization | (4) Inbreeding |

Options :

19088941173. 1

19088941174. 2

19088941175. 3

19088941176. 4

Question Number : 100 Question Id : 19088910321 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The best strategies for enhancing milk production in non-descript cattle with resource limited farmers in India is

- | | |
|------------------------|----------------------------------|
| (1) Crossbreeding | (2) Grading up with milch breeds |
| (3) Selection breeding | (4) Hybridization |

Options :

19088941177. 1

19088941178. 2

19088941179. 3

19088941180. 4

Question Number : 101 Question Id : 19088910322 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The symmetrical gene frequency for a recessive allele is

- (1) 0.25 (2) 0.50
(3) 0.75 (4) 1.0

Options :

19088941181. 1
19088941182. 2
19088941183. 3
19088941184. 4

Question Number : 102 Question Id : 19088910323 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Average superiority of the selected parents from the population is referred as

- (1) Selection differential (2) Response to selection
(3) Heritability (4) Repeatability

Options :

19088941185. 1
19088941186. 2
19088941187. 3
19088941188. 4

Question Number : 103 Question Id : 19088910324 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In selection experiments proportion of selected individual and intensity of selection has relationship

- (1) Direct proportional (2) Negative proportional
(3) Multiplicative proportional (4) No relationship

Options :

19088941189. 1

19088941190. 2

19088941191. 3

19088941192. 4

**Question Number : 104 Question Id : 19088910325 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Intensity of selection increases, when

- (1) If proportion selected decreases and population size under selection increases
- (2) If proportion selected and population size under selection both increases
- (3) If proportion selected and population size under selection both decreases
- (4) If proportion selected increase and population size under selection decrease

Options :

19088941193. 1

19088941194. 2

19088941195. 3

19088941196. 4

**Question Number : 105 Question Id : 19088910326 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

In *Drosophilla*, identify the male phenotype from the given genotype.

- | | |
|---------|---------|
| (1) XX | (2) XY |
| (3) XXX | (4) XXY |

Options :

19088941197. 1

19088941198. 2

19088941199. 3

19088941200. 4

Question Number : 106 Question Id : 19088910327 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

To study the genetic diversity, IIIrd generation markers are

- | | |
|--------------------|----------|
| (1) RFLP | (2) RAPD |
| (3) Microsatellite | (4) SNPs |

Options :

19088941201. 1

19088941202. 2

19088941203. 3

19088941204. 4

Question Number : 107 Question Id : 19088910328 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A procedure used for fluorescence microscopy produces quinacrine – induced bands is called

- | | |
|---------------|---------------|
| (1) C-banding | (2) R-banding |
| (3) Q-banding | (4) G-banding |

Options :

19088941205. 1

19088941206. 2

19088941207. 3

19088941208. 4

Question Number : 108 Question Id : 19088910329 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The following genotypes are formed in a population what are the allelic frequency of A and a will be

AA	Aa	aa
200	400	200

(1) $A = 0.3$ $a = 0.7$

(2) $A = 0.6$ $a = 0.4$

(3) $A = 0.5$ $a = 0.5$

(4) $A = 0.7$ $a = 0.3$

Options :

19088941209. 1

19088941210. 2

19088941211. 3

19088941212. 4

Question Number : 109 Question Id : 19088910330 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Polyploidy refers to

(1) A chromosome which have replicated but not divided

(2) Multiple ribosomes present as a single m-RNA

(3) An inversion which does not include the centromere

(4) An individual with complete extra sets of chromosomes.

Options :

19088941213. 1

19088941214. 2

19088941215. 3

19088941216. 4

Question Number : 110 Question Id : 19088910331 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

After one generation of selection, the heritability estimate in a population

- (1) Increase (2) Decrease
(3) Either increase or decrease (4) Neither increase nor decrease

Options :

19088941217. 1

19088941218. 2

19088941219. 3

19088941220. 4

Question Number : 111 Question Id : 19088910332 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

When response to selection ceased, the population is said to be at

- (1) Zero response (2) Selection limit
(3) Response limit (4) No response

Options :

19088941221. 1

19088941222. 2

19088941223. 3

19088941224. 4

Question Number : 112 Question Id : 19088910333 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The selection index method was introduced in animal breeding by

- (1) Lush (2) Smith and Hazel
(3) Lerner (4) Comstock

Options :

19088941225. 1

19088941226. 2

19088941227. 3

19088941228. 4

Question Number : 113 Question Id : 19088910334 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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) : Reciprocal Recurrent Selection is used in dairy cattle for increasing the milk production

Reason (R) : Reciprocal Recurrent Selection is used in commercial breeding of poultry layers.

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

- (1) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are correct and (R) is NOT the correct explanation of (A)
- (3) (A) is correct but (R) is not correct
- (4) (A) is not correct but (R) is correct

Options :

19088941229. 1

19088941230. 2

19088941231. 3

19088941232. 4

Question Number : 114 Question Id : 19088910335 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Recurrent selection was purposed by

- | | |
|------------|-------------------------|
| (1) Dull | (2) Robinson and Harvey |
| (3) Richey | (4) Hull |

Options :

19088941233. 1

19088941234. 2

19088941235. 3

19088941236. 4

**Question Number : 115 Question Id : 19088910336 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

National Dairy Research Institute (NDRI), Kamal has started a systematic crossbreeding program to evolve Karan-Swiss strain of cattle in the year 1963 by crossing Sahiwal and Red Sindhi cows. Choose the exotic cattle breed which was used in development of Karan-Swiss cattle strain

(1) Holstein Friesian

(2) Brown-Swiss

(3) Jersey

(4) Red dane

Options :

19088941237. 1

19088941238. 2

19088941239. 3

19088941240. 4

**Question Number : 116 Question Id : 19088910337 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

At present (2021) how many breeds of dog are registered in India?

(1) 1

(2) 2

(3) 3

(4) 4

Options :

19088941241. 1

19088941242. 2

19088941243. 3

19088941244. 4

Question Number : 117 Question Id : 19088910338 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The results of cross breeding programs in India revealed outcome as follows:

Statement I : The F₁ cows between *Bos taurus* and *Bos indicus* should give higher production and reproduction performance as compared to F₂ (obtained by inter-se mating)

Statement II : Three breed crosses had no significant advantage over two breed crosses

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

- (1) Both Statement I and Statement II are true
- (2) Both Statement I and Statement II are false
- (3) Statement I is correct but Statement II is false
- (4) Statement I is incorrect but Statement II is true

Options :

19088941245. 1

19088941246. 2

19088941247. 3

19088941248. 4

Question Number : 118 Question Id : 19088910339 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

'Tenyi-Vo' is a registered breed of India, choose the correct species name

- | | |
|------------|-----------|
| (1) Cattle | (2) Sheep |
| (3) Goat | (4) Pig |

Options :

19088941249. 1

19088941250. 2

19088941251. 3

19088941252. 4

**Question Number : 119 Question Id : 19088910340 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

'Mudhal – Hound' is a registered breed of which species?

(1) Equine

(2) Dog

(3) Poultry

(4) Pig

Options :

19088941253. 1

19088941254. 2

19088941255. 3

19088941256. 4

**Question Number : 120 Question Id : 19088910341 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Horse was domesticated from

(1) Kazakhstan

(2) Sudan

(3) China

(4) India

Options :

19088941257. 1

19088941258. 2

19088941259. 3

19088941260. 4