

# National Testing Agency

<b>Question Paper Name :</b>	ANIMAL SCIENCE 23rd Sep 2020 Shift 1 Set 2
<b>Subject Name :</b>	ANIMAL SCIENCE
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<b>Duration :</b>	120
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<b>Display Marks:</b>	Yes
<b>Share Answer Key With Delivery Engine :</b>	Yes
<b>Actual Answer Key :</b>	Yes

## ANIMAL SCIENCE

<b>Group Number :</b>	1
<b>Group Id :</b>	21052917
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	480
<b>Is this Group for Examiner? :</b>	No

## ANIMAL SCIENCE

<b>Section Id :</b>	21052921
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	120

<b>Number of Questions to be attempted :</b>	120
<b>Section Marks :</b>	480
<b>Display Number Panel :</b>	Yes
<b>Group All Questions :</b>	Yes
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	21052921
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 2105291981 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 latest feeding standard for various classes of animals was developed by ICAR in the year

1. 1985
2. 1998
3. 2013
4. 2019

**Options :**

- 2105297921. 1
- 2105297922. 2
- 2105297923. 3
- 2105297924. 4

**Question Number : 2 Question Id : 2105291982 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**

Non-digestible food substances that selectively stimulate the growth of favourable species of bacteria in gut are called

- A. Probiotics
- B. Prebiotics
- C. Synbiotics

Select the most appropriate answer from the options given below

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

**Options :**

- 2105297925. 1
- 2105297926. 2
- 2105297927. 3
- 2105297928. 4

**Question Number : 3 Question Id : 2105291983 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**

pH of good quality silage is

- 1. Less than 3.0
- 2. 3.8 - 4.2
- 3. 5.0 - 7.0
- 4. More than 7.0

**Options :**

- 2105297929. 1
- 2105297930. 2



2105297931. 3

2105297932. 4

**Question Number : 4 Question Id : 2105291984 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**

Molybdenum toxicity in ruminants is known as

1. Milk fever
2. Grass staggers
3. Teartness
4. None of these

**Options :**

2105297933. 1

2105297934. 2

2105297935. 3

2105297936. 4

**Question Number : 5 Question Id : 2105291985 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**

Pica is the symptom of deficiency of

1. Calcium
2. Iron
3. Copper
4. Phosphorous

**Options :**

2105297937. 1

2105297938. 2

2105297939. 3

2105297940. 4



**Question Number : 6 Question Id : 2105291986 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**

H<sub>2</sub>O<sub>2</sub> (Hydrogen peroxide) is used as preservative in milk in the concentration of

1. 300- 800 ppm
2. 1000 - 1200 ppm
3. More than 1200 ppm
4. Less than 100 ppm

**Options :**

2105297941. 1

2105297942. 2

2105297943. 3

2105297944. 4

**Question Number : 7 Question Id : 2105291987 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**

As per Bacteriological Standards (IS - 3507 - 1966), what is the count (per ml) of yeast and mold in good quality butter?

1. < 20
2. 21 - 50
3. 51 - 100
4. > 100

**Options :**

2105297945. 1

2105297946. 2

2105297947. 3

2105297948. 4

**Question Number : 8 Question Id : 2105291988 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**

Milk powder should contain

1. 0% moisture
2. 5% moisture
3. 10% moisture
4. 15% moisture

**Options :**

- 2105297949. 1
- 2105297950. 2
- 2105297951. 3
- 2105297952. 4

**Question Number : 9 Question Id : 2105291989 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**

Linseed meal containing limatidine interferes in the utilization of which of the following vitamins?

1. Thiamin
2. Pyridoxine
3. Biotin
4. Folacin

**Options :**

- 2105297953. 1
- 2105297954. 2
- 2105297955. 3
- 2105297956. 4

**Question Number : 10 Question Id : 2105291990 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 cattle feed was supplied at two levels, i.e 40 and 100 MJ/d. If the additional supply of 60 MJ resulted in an increase in heat production by 24 MJ/d, what will be the increment as a proportion of additional energy provided?

1. 0.2
2. 0.4
3. 0.6
4. 0.8

**Options :**

2105297957. 1  
2105297958. 2  
2105297959. 3  
2105297960. 4

**Question Number : 11 Question Id : 2105291991 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 lactate producing bacteria?

1. *Bacteroides ruminicola*
2. *Megasphaera elsdenii*
3. *Succinomonas ruminantium*
4. *Streptococcus bovis*

**Options :**

2105297961. 1  
2105297962. 2  
2105297963. 3  
2105297964. 4

**Question Number : 12 Question Id : 2105291992 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**

'Thumps' is caused by deficiency of which one of the following minerals?

1. Iron
2. Copper
3. Cobalt
4. Manganese

**Options :**

2105297965. 1

2105297966. 2

2105297967. 3

2105297968. 4

**Question Number : 13 Question Id : 2105291993 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 called 'invert sugar'?

1. Maltose
2. Sucrose
3. Glucose
4. Fructose

**Options :**

2105297969. 1

2105297970. 2

2105297971. 3

2105297972. 4

**Question Number : 14 Question Id : 2105291994 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 not a Zinc containing enzyme?

1. Catalase
2. SOD
3. Alcohol dehydrogenase
4. Carbonic anhydrase

**Options :**

2105297973. 1  
2105297974. 2  
2105297975. 3  
2105297976. 4

**Question Number : 15 Question Id : 2105291995 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 a digestion trial, a goat consumed 800 g of DM and voided 800 g of faeces having 30% DM.  
What was the digestibility of DM in that goat?

1. 50%
2. 60%
3. 70%
4. 80%

**Options :**

2105297977. 1  
2105297978. 2  
2105297979. 3  
2105297980. 4

**Question Number : 16 Question Id : 2105291996 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 amino acids is helpful in partially meeting niacin requirement?

1. Phenylalanine
2. Tryptophan
3. Tyrosine
4. Threonine

**Options :**

- 2105297981. 1
- 2105297982. 2
- 2105297983. 3
- 2105297984. 4

**Question Number : 17 Question Id : 2105291997 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**

'Fatty liver and kidney' syndrome is caused by a deficiency of which one of the following vitamins?

1. Cyanocobalamin
2. Biotin
3. Folacin
4. Pyridoxine

**Options :**

- 2105297985. 1
- 2105297986. 2
- 2105297987. 3
- 2105297988. 4

**Question Number : 18 Question Id : 2105291998 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 S-containing vitamin?

1. Thiamin
2. Niacin
3. Pyridoxine
4. Folacin

**Options :**

2105297989. 1  
2105297990. 2  
2105297991. 3  
2105297992. 4

**Question Number : 19 Question Id : 2105291999 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 is associated with transfer of single carbon unit?

1. Thiamin
2. Niacin
3. Pyridoxine
4. Folacin

**Options :**

2105297993. 1  
2105297994. 2  
2105297995. 3  
2105297996. 4

**Question Number : 20 Question Id : 2105292000 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 species CANNOT synthesize Vitamin C?

1. Cat
2. Chicken
3. Dog
4. Monkey

**Options :**

- 2105297997. 1
- 2105297998. 2
- 2105297999. 3
- 2105298000. 4

**Question Number : 21 Question Id : 2105292001 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 cereal grains contains a considerable amount of pentosans?

1. Barley
2. Maize
3. Sorghum
4. Wheat

**Options :**

- 2105298001. 1
- 2105298002. 2
- 2105298003. 3
- 2105298004. 4

**Question Number : 22 Question Id : 2105292002 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 insoluble protein?

1. Albumin
2. Casein
3. Lactoglobulin
4. Keratin

**Options :**

- 2105298005. 1
- 2105298006. 2
- 2105298007. 3
- 2105298008. 4

**Question Number : 23 Question Id : 2105292003 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 protein sources contains gossypol?

1. Cottonseed cake
2. Groundnut cake
3. Mustard cake
4. Soybean cake

**Options :**

- 2105298009. 1
- 2105298010. 2
- 2105298011. 3
- 2105298012. 4

**Question Number : 24 Question Id : 2105292004 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 natural indicator to measure digestibility in animals?

1. Carmine red
2. Chromic oxide
3. Ferric oxide
4. Lignin

**Options :**

- 2105298013. 1
- 2105298014. 2
- 2105298015. 3
- 2105298016. 4

**Question Number : 25 Question Id : 2105292005 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**

High yielding dairy cows should have a dry period of

1. Two weeks
2. Four weeks
3. Six weeks
4. Eight weeks

**Options :**

- 2105298017. 1
- 2105298018. 2
- 2105298019. 3
- 2105298020. 4

**Question Number : 26 Question Id : 2105292006 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**

DCP requirement for maintenance of goat is

1. 3 g / kg BW<sup>0.75</sup>
2. 6 g / kg BW<sup>0.75</sup>
3. 9 g / kg BW<sup>0.75</sup>
4. 12 g / kg BW<sup>0.75</sup>

**Options :**

- 2105298021. 1
- 2105298022. 2
- 2105298023. 3
- 2105298024. 4

**Question Number : 27 Question Id : 2105292007 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**

Milk of which one of the following breeds contains maximum amount of fat?

1. Ayrshire
2. Guernsey
3. Holstein
4. Jersey

**Options :**

- 2105298025. 1
- 2105298026. 2
- 2105298027. 3
- 2105298028. 4

**Question Number : 28 Question Id : 2105292008 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 omnivorous?

1. Tiger
2. Vulture
3. King Cobra
4. Dog

**Options :**

2105298029. 1  
2105298030. 2  
2105298031. 3  
2105298032. 4

**Question Number : 29 Question Id : 2105292009 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 cereal grains contains a considerable amount of tannins?

1. Oat
2. Maize
3. Barley
4. Sorghum

**Options :**

2105298033. 1  
2105298034. 2  
2105298035. 3  
2105298036. 4

**Question Number : 30 Question Id : 2105292010 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**



BMR in poultry is

1. 66 kcal/kg BW<sup>0.75</sup>/d
2. 86 kcal/kg BW<sup>0.75</sup>/d
3. 106 kcal/kg BW<sup>0.75</sup>/d
4. 126 kcal/kg BW<sup>0.75</sup>/d

**Options :**

2105298037. 1  
2105298038. 2  
2105298039. 3  
2105298040. 4

**Question Number : 31 Question Id : 2105292011 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**

When glucose is completely oxidized to CO<sub>2</sub> and water,  $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$ , what will be the RQ?

1. 0.7
2. 0.8
3. 0.9
4. 1.0

**Options :**

2105298041. 1  
2105298042. 2  
2105298043. 3  
2105298044. 4

**Question Number : 32 Question Id : 2105292012 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 cow consuming 10 kg of DM having 12% CP voided 20 kg of feaces having 3% CP (as is basis). What is the CP digestibility?

1. 30%
2. 40%
3. 50%
4. 60%

**Options :**

- 2105298045. 1
- 2105298046. 2
- 2105298047. 3
- 2105298048. 4

**Question Number : 33 Question Id : 2105292013 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 condition for continuing production in the short-run condition is, if at least

1. Selling price < AVC
2. Selling price > AVC
3. Selling price > AFC
4. Selling price < AFC

**Options :**

- 2105298049. 1
- 2105298050. 2
- 2105298051. 3
- 2105298052. 4

**Question Number : 34 Question Id : 2105292014 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**

An increase in the investment at national level directly increases the

1. National Income
2. Gross National Product
3. Personal Income
4. Disposable Income

**Options :**

- 2105298053. 1
- 2105298054. 2
- 2105298055. 3
- 2105298056. 4

**Question Number : 35 Question Id : 2105292015 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 has zero cross elasticity of demand?

1. Paddy and Wheat
2. Butter and Mango
3. Ink and Pen
4. Bread and Butter

**Options :**

- 2105298057. 1
- 2105298058. 2
- 2105298059. 3
- 2105298060. 4

**Question Number : 36 Question Id : 2105292016 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 two substitutable commodities (X and Y), when the price of X increases, the demand for Y

1. Decreases
2. Does not vary
3. Increases
4. Becomes zero

**Options :**

- 2105298061. 1
- 2105298062. 2
- 2105298063. 3
- 2105298064. 4

**Question Number : 37 Question Id : 2105292017 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 opportunity cost of sunshine is

1. -1
2. -1 to +1
3. Zero
4. 1

**Options :**

- 2105298065. 1
- 2105298066. 2
- 2105298067. 3
- 2105298068. 4

**Question Number : 38 Question Id : 2105292018 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**

Dairy cattle reach puberty when the bodyweight is what percentage of the bodyweight of the adult?

1. 60-70%
2. 50-60%
3. 30-40%
4. 20-30%

**Options :**

2105298069. 1  
2105298070. 2  
2105298071. 3  
2105298072. 4

**Question Number : 39 Question Id : 2105292019 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**

Placental hormone include

- A. PMSG
- B. HCG
- C. Placental lactogen (PL)
- D. TSH

Choose the correct answer from the options given below:

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

**Options :**

2105298073. 1  
2105298074. 2  
2105298075. 3  
2105298076. 4

**Question Number : 40 Question Id : 2105292020 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**

Cervical mucus of cows shows fern pattern of crystallization during

- A. Metestrus
- B. Diestrus
- C. Estrus
- D. Pre estrus

Choose the correct answer from the options given below

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

**Options :**

2105298077. 1  
2105298078. 2  
2105298079. 3  
2105298080. 4

**Question Number : 41 Question Id : 2105292021 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. Mullerian ducts	I. Male
B. Wolffian ducts	II. Differentiation and steroidogenic capacity
C. Follicular fluid	III. Ovulation
D. LH surge	IV. Female

Choose the correct answer from the options given below:

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

**Options :**

- 2105298081. 1
- 2105298082. 2
- 2105298083. 3
- 2105298084. 4

**Question Number : 42 Question Id : 2105292022 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:** For effective functioning, the mammalian testes must be maintained at a temperature higher than that of the body

**Statement II:** Anatomical features of the testes and scrotum permit the regulation of testicular temperature

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 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 :**

- 2105298085. 1
- 2105298086. 2
- 2105298087. 3
- 2105298088. 4

**Question Number : 43 Question Id : 2105292023 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 comparison to temperate breeds of cattle, sweat glands in buffaloes are about

1. One fourth
2. One fifth
3. One sixth
4. One seventh

**Options :**

- 2105298089. 1
- 2105298090. 2

2105298091. 3

2105298092. 4

**Question Number : 44 Question Id : 2105292024 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 animal has the highest metabolic rate/gram of body?

1. Elephant
2. Buffalo
3. Shrew
4. Sheep

**Options :**

2105298093. 1

2105298094. 2

2105298095. 3

2105298096. 4

**Question Number : 45 Question Id : 2105292025 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 two gases with the highest relative contribution to the Green House Gases (GHG) are

1. CO<sub>2</sub> and N<sub>2</sub>O
2. CO<sub>2</sub> and CH<sub>4</sub>
3. N<sub>2</sub>O and CH<sub>4</sub>
4. CO<sub>2</sub> and CO

**Options :**

2105298097. 1

2105298098. 2

2105298099. 3

2105298100. 4



**Question Number : 46 Question Id : 2105292026 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 stage of lactogenesis, there is cytologic and enzymatic differentiation of the epithelial cells?

- A. Stage 3 of lactogenesis
- B. Stage 1 of lactogenesis
- C. Stage 2 of lactogenesis
- D. At the end of lactogenesis

Choose the correct answer from the options given below:

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

**Options :**

- 2105298101. 1
- 2105298102. 2
- 2105298103. 3
- 2105298104. 4

**Question Number : 47 Question Id : 2105292027 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 RNA : DNA ratio increases from pregnancy to lactogenesis. It increases, respectively from 1 : 1 to

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

**Options :**

- 2105298105. 1
- 2105298106. 2
- 2105298107. 3
- 2105298108. 4

**Question Number : 48 Question Id : 2105292028 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**

First scientific artificial insemination in cattle and sheep was performed by

1. Lazzaro Spallanzani
2. Sampath Kumaran
3. C. R. Ivanoff
4. P. Bhattacharya

**Options :**

- 2105298109. 1
- 2105298110. 2
- 2105298111. 3
- 2105298112. 4

**Question Number : 49 Question Id : 2105292029 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 fluorescent stain?

- A. Indian Ink
- B. Rose Bengal
- C. Chromomycein A3
- D. Eosin

Choose the correct answer from the options given below:

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

**Options :**

- 2105298113. 1
- 2105298114. 2
- 2105298115. 3
- 2105298116. 4

**Question Number : 50 Question Id : 2105292030 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:** Spermatozoa of fowl is hook-shaped

**Statement II:** Appendix testis is present in equine

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 :**

2105298117. 1

2105298118. 2

2105298119. 3

2105298120. 4

**Question Number : 51 Question Id : 2105292031 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**

Prescrotal sigmoid flexure is found in

1. Stallion
2. Bull
3. Boar
4. Buck

Choose the correct answer from the options given below

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

**Options :**

2105298121. 1
2105298122. 2
2105298123. 3
2105298124. 4

**Question Number : 52 Question Id : 2105292032 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 interleukin inhibits the immune response

- A. IL - 4
- B. IL - 13
- C. IL - 10
- D. IL - 7

Choose the correct answer from the options given below

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

**Options :**

- 2105298125. 1
- 2105298126. 2
- 2105298127. 3
- 2105298128. 4

**Question Number : 53 Question Id : 2105292033 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**



$\beta$  - lymphocytes develop immunocompetence in the

- A. Bone marrow
- B. Spleen
- C. Thymus
- D. Lymph nodes

Choose the correct answer from the options given below

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

**Options :**

- 2105298129. 1
- 2105298130. 2
- 2105298131. 3
- 2105298132. 4

**Question Number : 54 Question Id : 2105292034 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 processes may be considered as an example of biotechnological process?

- 1. Treatment of straw with sodium hydroxide
- 2. Grinding of straw
- 3. Fungal treatment of straw
- 4. Ammonia treatment of straw

**Options :**

2105298133. 1  
2105298134. 2  
2105298135. 3  
2105298136. 4

**Question Number : 55 Question Id : 2105292035 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. Tonometer	I. Relative humidity
B. Hygrometer	II. Consistency of testis
C. Biological clock	III. Abnormal behaviour
D. Mismothering	IV. Suprachiasmatic nuclei

Choose the correct answer from the options given below

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

**Options :**

2105298137. 1  
2105298138. 2  
2105298139. 3  
2105298140. 4

**Question Number : 56 Question Id : 2105292036 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. Panoramic vision	I. Leptin
B. Aging	II. Etiology
C. Animal behaviour	III. Gerontology
D. Adipose tissue	IV. 330°

Choose the correct answer from the options given below

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

**Options :**

2105298141. 1  
2105298142. 2  
2105298143. 3  
2105298144. 4

**Question Number : 57 Question Id : 2105292037 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**

Working efficiency of bullocks can be enhanced by selecting

1. Soil and Animal
2. Animal and Implement
3. Soil and Environment
4. Implement and Environment

**Options :**

2105298145. 1  
2105298146. 2  
2105298147. 3



2105298148. 4

**Question Number : 58 Question Id : 2105292038 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 structure and function of muscle and non-muscle cells are similar with regard to

- A. Mitochondria
- B. Ribosomes
- C. Endoplasmic reticulum
- D. Golgi complex

Choose the correct answer from the options given below

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

**Options :**

- 2105298149. 1
- 2105298150. 2
- 2105298151. 3
- 2105298152. 4

**Question Number : 59 Question Id : 2105292039 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:** A reduction in the secretion of growth hormone (GH) is required for the survival of homeotherms during heat stress

**Statement II:** Acclimation to thermal stress is identified as a homeostatic process under endocrine control

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 :**

2105298153. 1

2105298154. 2

2105298155. 3

2105298156. 4

**Question Number : 60 Question Id : 2105292040 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 skeletal muscles named on the basis their location?

- A. Quadriceps
- B. Subscapularis
- C. Adductor
- D. Supraspinatus
- E. Rectus abdominis

Choose the correct answer from the options given below

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

**Options :**

- 2105298157. 1
- 2105298158. 2
- 2105298159. 3
- 2105298160. 4

**Question Number : 61 Question Id : 2105292041 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 mammalian neurohypophysis is the source of which of the following principal hormone(s)?

- A. Oxytocin
- B. Arginine vasopressin
- C. Lysine vasopressin
- D. Corticosteroid

Choose the correct answer from the options given below

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

**Options :**

- 2105298161. 1
- 2105298162. 2
- 2105298163. 3
- 2105298164. 4

**Question Number : 62 Question Id : 2105292042 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**

Salivary mixed glands include(s)

- A. Submaxillary
- B. Sublingual
- C. Labial
- D. Buccal
- E. Pharyngeal

Choose the correct answer from the options given below:

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

**Options :**

- 2105298165. 1
- 2105298166. 2
- 2105298167. 3
- 2105298168. 4

**Question Number : 63 Question Id : 2105292043 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**

Gastrointestinal microorganisms are capable of

- A. Reduction
- B. Dehydration
- C. Ring fusion
- D. Aromatization

Choose the correct answer from the options given below:

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

**Options :**

- 2105298169. 1
- 2105298170. 2
- 2105298171. 3
- 2105298172. 4

**Question Number : 64 Question Id : 2105292044 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 capacity includes

- A. Expiratory reserve volume
- B. Inspiratory reserve volume
- C. Tidal volume
- D. Residual volume

Choose the correct answer from the options given below

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

**Options :**

- 2105298173. 1
- 2105298174. 2
- 2105298175. 3
- 2105298176. 4

**Question Number : 65 Question Id : 2105292045 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 mean pressure in the pulmonary artery is approximately one-third that of the systemic

**Statement II:** The mean pressure in the pulmonary artery is one-sixth that of the systemic

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 :**

2105298177. 1

2105298178. 2

2105298179. 3

2105298180. 4

**Question Number : 66 Question Id : 2105292046 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**

Intrinsic mechanism of blood coagulation refers to the sequence of enzymatic reactions which is due to

- A. Damage to a vessel
- B. Exposure to air
- C. Foreign surface
- D. Sufficiently traumatic blood vessel

Choose the correct answer from the options given below

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

**Options :**

- 2105298181. 1
- 2105298182. 2
- 2105298183. 3
- 2105298184. 4

**Question Number : 67 Question Id : 2105292047 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**



Homeostasis is maintained by following physiological processes

- A. Diffusion
- B. Concentration gradient
- C. Pressure gradient
- D. Nervous system
- E. Endocrine system

Choose the correct answer from the options given below:

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

**Options :**

- 2105298185. 1
- 2105298186. 2
- 2105298187. 3
- 2105298188. 4

**Question Number : 68 Question Id : 2105292048 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 overall increase in the air temperature in the 20<sup>th</sup> century has been about

- 1. 1.0 - 1.5 °C
- 2. 0.2 - 0.8 °C
- 3. 0.9 - 1.2 °C
- 4. 1.5 - 2.0 °C

**Options :**

2105298189. 1

2105298190. 2

2105298191. 3

2105298192. 4

**Question Number : 69 Question Id : 2105292049 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 normal feeding conditions, methane forms what percent of the total gas produced in the rumen of cattle?

1. 10 - 15%

2. 15 - 20%

3. 30 - 40%

4. 20 - 30%

**Options :**

2105298193. 1

2105298194. 2

2105298195. 3

2105298196. 4

**Question Number : 70 Question Id : 2105292050 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 animals is an induced ovulator?

1. Buffalo

2. Cattle

3. Rabbit

4. Goat

**Options :**

2105298197. 1

2105298198. 2

2105298199. 3

2105298200. 4

**Question Number : 71 Question Id : 2105292051 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 fertile life of sperm of cattle is between

1. 15 - 20 hours
2. 20 - 25 hours
3. 30 - 48 hours
4. 40 - 48 hours

**Options :**

2105298201. 1

2105298202. 2

2105298203. 3

2105298204. 4

**Question Number : 72 Question Id : 2105292052 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**

Hemophilia A is caused by the deficiency of coagulating factor

1. XI
2. X
3. XII
4. VII

**Options :**

2105298205. 1

2105298206. 2

2105298207. 3



2105298208. 4

**Question Number : 73 Question Id : 2105292053 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**

Climate is defined as the study of average meteorological variables of any region of at least

1. 35 years
2. 40 years
3. 30 years
4. 50 years

**Options :**

2105298209. 1  
2105298210. 2  
2105298211. 3  
2105298212. 4

**Question Number : 74 Question Id : 2105292054 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**

if  $b_{xy} = +0.80$ , the value of  $b_{yx}$  can be

1. +1.25
2. -1.25
3. +1.26
4. -1.24

**Options :**

2105298213. 1  
2105298214. 2  
2105298215. 3  
2105298216. 4

**Question Number : 75 Question Id : 2105292055 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**

Non-parametric tests are

- A. Wilcoxon signed-rank test
- B. Kruskal - Wallis test
- C. Spearman's rank correlation
- D. One way ANOVA
- E. Paired t-test

Choose the correct answer from the options given below

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

**Options :**

- 2105298217. 1
- 2105298218. 2
- 2105298219. 3
- 2105298220. 4

**Question Number : 76 Question Id : 2105292056 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**

$X \sim N(100, 15)$  is read as

1. X is a normal random variable with median 100 and standard deviation 15
2. X is a normal random variable with mean 100 and standard deviation 15
3. X is a normal random variable with mode 100 and variance 15
4. X is a normal random variable with mean 100 and variance 15

**Options :**

- 2105298221. 1
- 2105298222. 2
- 2105298223. 3
- 2105298224. 4

**Question Number : 77 Question Id : 2105292057 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**

Regression coefficient ranges from

1. -1 to +1
2. 0 to 1
3. -1 to +2
4.  $-\infty$  to  $+\infty$

**Options :**

- 2105298225. 1
- 2105298226. 2
- 2105298227. 3
- 2105298228. 4

**Question Number : 78 Question Id : 2105292058 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**



Number of regression equations with 2 variables will be

1. 8
2. 4
3. 2
4. 6

**Options :**

- 2105298229. 1
- 2105298230. 2
- 2105298231. 3
- 2105298232. 4

**Question Number : 79 Question Id : 2105292059 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 total pig population in India in 2019 was 9.06 million

**Statement II:** Total pig population in 2019 has shown a decrease of 12.03% over the previous census

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 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 :**

- 2105298233. 1
- 2105298234. 2
- 2105298235. 3

2105298236. 4

**Question Number : 80 Question Id : 2105292060 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:** Breed is maintained through grading of animals

**Statement II:** Heterosis is stabilized in the 3<sup>rd</sup> generation of mating

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 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 :**

- 2105298237. 1
- 2105298238. 2
- 2105298239. 3
- 2105298240. 4

**Question Number : 81 Question Id : 2105292061 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**

Ongole cattle are characterized by

- A. Small size
- B. Large size
- C. Long body
- D. Short body
- E. Broad forehead

Choose the correct answer from the options given below

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

**Options :**

- 2105298241. 1
- 2105298242. 2
- 2105298243. 3
- 2105298244. 4

**Question Number : 82 Question Id : 2105292062 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**



Vent of a non-layer hen is

A. Small

B. Dry

C. Round

D. Large

E. Moist

Choose the correct answer from the options given below

1. D only

2. B, C and D only

3. C, D and E only

4. A, B and C only

**Options :**

2105298245. 1

2105298246. 2

2105298247. 3

2105298248. 4

**Question Number : 83 Question Id : 2105292063 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**

Doom is a breed of

- A. Goat
- B. Pig
- C. Camel
- D. Sheep
- E. Cattle

Choose the correct answer from the options given below

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

**Options :**

- 2105298249. 1
- 2105298250. 2
- 2105298251. 3
- 2105298252. 4

**Question Number : 84 Question Id : 2105292064 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**

'Turkey', a poultry species is a native of

- 1. North America
- 2. South America
- 3. Turkmenistan
- 4. Turkey

**Options :**

2105298253. 1

2105298254. 2

2105298255. 3

2105298256. 4

**Question Number : 85 Question Id : 2105292065 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**

Heat-trapping capacity of Green House Gases is known as

1. Global warming potential
2. Heating power
3. Heating capacity
4. Heating Index

**Options :**

2105298257. 1

2105298258. 2

2105298259. 3

2105298260. 4

**Question Number : 86 Question Id : 2105292066 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**

Instrument shelter used to protect the temperature measuring device from rain, wind or snow is called

1. Stevenson screen
2. Weather screen
3. LCD screen
4. Radiation protecting instrument

**Options :**

2105298261. 1



2105298262. 2

2105298263. 3

2105298264. 4

**Question Number : 87 Question Id : 2105292067 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 NOT a farm income and profit efficiency measure?

1. Net cash income
2. Capital per man
3. Net farm income
4. Family labour earnings

**Options :**

2105298265. 1

2105298266. 2

2105298267. 3

2105298268. 4

**Question Number : 88 Question Id : 2105292068 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 tallest breed of goat?

1. Jamunapari
2. Beetal
3. Black Bengal
4. Barbari

**Options :**

2105298269. 1

2105298270. 2

2105298271. 3

2105298272. 4

**Question Number : 89 Question Id : 2105292069 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**

Primitive man used which one of the following families as food?

1. Bovidae
2. Suidae
3. Equidae
4. Camelidae

**Options :**

2105298273. 1  
2105298274. 2  
2105298275. 3  
2105298276. 4

**Question Number : 90 Question Id : 2105292070 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**

Metestrus period is characterized by

1. Increase in levels of both estrogen and LH
2. Increase in level of estrogen and fall in level of LH
3. Fall in levels of both estrogen and LH
4. Fall in level of estrogen and increase in level of LH

**Options :**

2105298277. 1  
2105298278. 2  
2105298279. 3  
2105298280. 4

**Question Number : 91 Question Id : 2105292071 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**

Cows infected with pathogens have SCC of

1. 2 L or more
2. 1 L or more
3. 4 L or more
4. 5 L or more

**Options :**

- 2105298281. 1
- 2105298282. 2
- 2105298283. 3
- 2105298284. 4

**Question Number : 92 Question Id : 2105292072 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**

Grower diet of pigs should contain about

1. 9 - 10% CP
2. 11 - 12% CP
3. 15 - 16% CP
4. 21 - 22% CP

**Options :**

- 2105298285. 1
- 2105298286. 2
- 2105298287. 3
- 2105298288. 4

**Question Number : 93 Question Id : 2105292073 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**



Permanent incisors in cattle start coming up at the age of

1. 3 years
2. 2 years
3. 6 months
4. 12 months

**Options :**

2105298289. 1  
2105298290. 2  
2105298291. 3  
2105298292. 4

**Question Number : 94 Question Id : 2105292074 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**

Electric dehorner maintains the temperature at about

1. 137 °C
2. 237 °C
3. 537 °C
4. 37 °C

**Options :**

2105298293. 1  
2105298294. 2  
2105298295. 3  
2105298296. 4

**Question Number : 95 Question Id : 2105292075 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:** FAO defines a mixed farming system as one wherein more than 20% of the total value of production comes from non-livestock farming activities

**Statement II:** Headquarter of the World Organization for Animal Health is located in France

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 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 :**

2105298297. 1

2105298298. 2

2105298299. 3

2105298300. 4

**Question Number : 96 Question Id : 2105292076 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:** Cattle have a visual field in excess of 300 degrees

**Statement II:** Animal handlers should never work on the edge of light zone

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 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 :**

2105298301. 1

2105298302. 2

2105298303. 3

2105298304. 4

**Question Number : 97 Question Id : 2105292077 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:** Common foot bath products are Formalin and Copper sulphate

**Statement II:** Lime is not used for foot bath purposes

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 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 :**

2105298305. 1

2105298306. 2

2105298307. 3

2105298308. 4

**Question Number : 98 Question Id : 2105292078 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. Veal	I. Wild animals meat
B. Venison	II. Pig meat
C. Bacon	III. Calf meat
D. Bushmeat	IV. Deer meat

Choose the correct answer from the options given below:

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

**Options :**

- 2105298309. 1
- 2105298310. 2
- 2105298311. 3
- 2105298312. 4

**Question Number : 99 Question Id : 2105292079 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. Outbreeding	I. Unrelated animals
B. Inbreeding	II. Animals from different established breeds
C. Outcrossing	III. Related animals
D. Crossbreeding	IV. Unrelated animals within same pure breed

Choose the correct answer from the options given below:

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

**Options :**

- 2105298313. 1
- 2105298314. 2
- 2105298315. 3
- 2105298316. 4

**Question Number : 100 Question Id : 2105292080 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. Amylase	I. Protein
B. Lipase	II. Starch
C. Rennin	III. Milk protein
D. Pepsin	IV. Fats

Choose the correct answer from the options given below

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

**Options :**

- 2105298317. 1
- 2105298318. 2
- 2105298319. 3
- 2105298320. 4

**Question Number : 101 Question Id : 2105292081 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. Cattle	I. 30 kg Birth Weight
B. Buffalo	II. 25 kg Birth Weight
C. Sheep	III. 55 kg Birth Weight
D. Horses	IV. 2.5 kg Birth Weight

Choose the correct answer from the options given below:

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

**Options :**

- 2105298321. 1
- 2105298322. 2
- 2105298323. 3
- 2105298324. 4

**Question Number : 102 Question Id : 2105292082 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. Atavism	I. Previous sire characteristic on progeny
B. Nicking	II. Stamping characteristics on progeny
C. Prepotency	III. Best or worst progeny
D. Telegony	IV. Re appearance of ancestral traits

Choose the correct answer from the options given below

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

**Options :**

- 2105298325. 1
- 2105298326. 2
- 2105298327. 3
- 2105298328. 4

**Question Number : 103 Question Id : 2105292083 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:** If 3 genes are relatively close together along one chromosome, the expected frequency of double cross over gametes is very high

**Statement II:** Three gene pairs must be investigated to study double exchanges of genetic materials

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 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 :**

2105298329. 1

2105298330. 2

2105298331. 3

2105298332. 4

**Question Number : 104 Question Id : 2105292084 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:** Individuals afflicted with phenylketonuria can metabolize phenylalanine

**Statement II:** Individuals afflicted with galactosemia can metabolize galactose

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 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 :**

2105298333. 1

2105298334. 2

2105298335. 3

2105298336. 4

**Question Number : 105 Question Id : 2105292085 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:** Mendel performed his first set of hybridization in 1858

**Statement II:** Gregor Johann Mendel was born in 1822 to a peasant family

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 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 :**

2105298337. 1

2105298338. 2

2105298339. 3

2105298340. 4

**Question Number : 106 Question Id : 2105292086 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:** Genetic code consists of a linear series of nucleotide triplets

**Statement II:** Each triplet code is complementary to the information stored in DNA

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 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 :**

2105298341. 1

2105298342. 2

2105298343. 3

2105298344. 4

**Question Number : 107 Question Id : 2105292087 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:** Alternative splicing generates uniform mRNA from identical pre-mRNA molecules

**Statement II:** Changes in splicing patterns may have many different effects on translated proteins

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 :**

2105298345. 1

2105298346. 2

2105298347. 3

2105298348. 4

**Question Number : 108 Question Id : 2105292088 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:** Crossbreeding of cattle in India started with the development of Jersind

**Statement II:** Frieswal is the cross of Holstein-Friesians and Sahiwal

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 :**

2105298349. 1

2105298350. 2

2105298351. 3

2105298352. 4

**Question Number : 109 Question Id : 2105292089 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**



Arrange the following stages in correct sequence

A. Leptonema

B. Zygonema

C. Diakinesis

D. Pachynema

E. Diplonema

Choose the correct answer from the options given below

1. A, B, D, E, C

2. A, B, C, D, E

3. B, A, C, E, D

4. E, C, D, A, B

**Options :**

2105298353. 1

2105298354. 2

2105298355. 3

2105298356. 4

**Question Number : 110 Question Id : 2105292090 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**

Arrange the following animals in increasing order of haploid number of chromosomes

- A. Cat
- B. Cattle
- C. Chicken
- D. Dog
- E. Horse

Choose the correct answer from the options given below

- 1.  $C < A < B < E < D$
- 2.  $D < E < C < A < B$
- 3.  $E < D < C < B < A$
- 4.  $A < B < E < C < D$

**Options :**

- 2105298357. 1
- 2105298358. 2
- 2105298359. 3
- 2105298360. 4

**Question Number : 111 Question Id : 2105292091 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**

REML takes into account the degree of freedom involved in estimating

- 1. Fixed effect
- 2. Random effect
- 3. Regression effect
- 4. Covariable effect

**Options :**

2105298361. 1  
2105298362. 2  
2105298363. 3  
2105298364. 4

**Question Number : 112 Question Id : 2105292092 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**

Index is \_\_\_\_\_ of an individual's breeding value

- A. Best linear prediction
- B. Best linear unbiased prediction
- C. Best prediction
- D. Best linear biased prediction

Choose the correct answer from the options given below

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

**Options :**

2105298365. 1  
2105298366. 2  
2105298367. 3  
2105298368. 4

**Question Number : 113 Question Id : 2105292093 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**



If the selection coefficient is 0.7, fitness will be

1. 0.3
2. 0.4
3. 0.7
4. 0.6

**Options :**

2105298369. 1  
2105298370. 2  
2105298371. 3  
2105298372. 4

**Question Number : 114 Question Id : 2105292094 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 would be the sum of determination coefficients if all causes are accounted for?

1. 1
2. 0
3. - 0.50
4. 0.50

**Options :**

2105298373. 1  
2105298374. 2  
2105298375. 3  
2105298376. 4

**Question Number : 115 Question Id : 2105292095 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**

If there is complete dominance, the additive variance is maximal when the frequency of recessive allele is

1. 0.25
2. 0.50
3. 0.75
4. 1.00

**Options :**

- 2105298377. 1
- 2105298378. 2
- 2105298379. 3
- 2105298380. 4

**Question Number : 116 Question Id : 2105292096 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 reliable procedure of heritability estimation is

1. Full sib correlation
2. Half sib correlation
3. Regression of offspring on dam
4. Intra-sire regression of offspring on dam

**Options :**

- 2105298381. 1
- 2105298382. 2
- 2105298383. 3
- 2105298384. 4

**Question Number : 117 Question Id : 2105292097 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**

Heritability of fat percentage as compared to fat yield is

1. Less
2. More
3. Equal
4. Very less

**Options :**

- 2105298385. 1
- 2105298386. 2
- 2105298387. 3
- 2105298388. 4

**Question Number : 118 Question Id : 2105292098 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**

Ayrshire breed of cattle was developed in

1. Scotland
2. USA
3. UK
4. Switzerland

**Options :**

- 2105298389. 1
- 2105298390. 2
- 2105298391. 3
- 2105298392. 4

**Question Number : 119 Question Id : 2105292099 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**



Characteristics repeated in space are chiefly

1. Structural
2. Production
3. Growth
4. Reproduction

**Options :**

- 2105298393. 1
- 2105298394. 2
- 2105298395. 3
- 2105298396. 4

**Question Number : 120 Question Id : 2105292100 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**

Dominance deviations are interactions

1. Within alleles
2. Between loci
3. Within locus
4. Breeding values

**Options :**

- 2105298397. 1
- 2105298398. 2
- 2105298399. 3
- 2105298400. 4