NEET REVISION SERIES

STRATEGIES IN HUMAN WELFARE



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Q-1 - 14537788

Which of the following procedures are followed in dairy farm management?

- (i) Regular inspections and visits by veterinary doctors.
- (ii) Usage of manure to increase copy yields.
- (iii) Adequate environmental condition is provided.
- (iv) Weeding away unproductive and harmful plants from the brood house.
 - (A) (i) and (ii)
 - (B) (i) and (ii)
 - (C) (iii) and (iv)

(D) All of these

CORRECT ANSWER: B

SOLUTION:

Dairy farming is the management of animals for milk and its products for human consumption. The processes and system that increase yield and improve the quality of milk are: health care and social well being of the animals, suitable environmental conditions like adequate ventilation, optimum temperature, sufficient light, eyc protection against disease, regular inspection by veterinary doctor and proper record keeping.

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Q-2 - 14537908

Meristem culture is used

(A) to produce disease free plants (B) in germplasm conservation (C) in rapid clonal multiplication (D) all of these **CORRECT ANSWER: D** Watch Video Solution On Doubtnut App Q-3 - 14537794 Which of the following is an improved variety of chicken? (A) Jersey (B) Leghorn (C) Himgiri (D) Kalyan Sona

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Q-4 - 18706440

Hardening is tissue culture is

- (A) Keeping at $30-50^{\circ}$ C temperature for about 30 minutes
- (B) Acclimatisation of tissue culture plants slowly before growing in the field
- (C) Plunging the vials into water at $37-40^{\circ}\,C$
- (D) None of the above

CORRECT ANSWER: B

SOLUTION:

The acclimatisation of plant formed by tissue culture before growing in the field to make it strong to adapt in new environment.

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Q-5 - 14537838

Lean meant' is considered to be high quality because it has

- (A) lesser but easily digestible protein
- (B) lesser lipid content
- (C) more fat that makes the meat softer
- (D) longer table life due to lesser chances of infection.

CORRECT ANSWER: B

SOLUTION:

Lean meat is the kind of meat with very little fat content in it. It is also high in vitamins and minerals.

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Q-6 - 18706429

An explant is

- (A) Dead plant
- (B) Part of the plant
- (C) Part of the plant used in tissue culture
- (D) Part of the plant that expresses a specific gene

CORRECT ANSWER: C

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Select the option showing the correct sequential steps to produce a new genetic variety of a corp.

- (A) Selection of parents \rightarrow Hybridisation of selected parents \rightarrow Germplasm collection \rightarrow Selection of superior recombinants \rightarrow Testing and release of new varieties
- (B) Germplasm collection \to Selection of parents \to Hybridisation of selected parents \to Selection of superior recombinants \to Testing and release of new varieties
- (C) Selection of superior recombinants \to Germplasm collection \to Hybridation of selected parents \to Selection of parents \to Testing and release of new varieties
- (D) Germplasm collection $\,\rightarrow\,$ Selection of parents $\,\rightarrow\,$

Hybridisation of selected parents \rightarrow Testing and release of new varieties $\,
ightarrow \,$ Selection of superior recombinants

CORRECT ANSWER: B

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Q-8 - 18706414

which one of the following is a case of wrong matching?

- (A) Somatic hybridization -Fusion of two diverse cells
- (B) Vector DNA- Site for t-RNA synthesis
- (C) Micropropagation -In vitro production of plants in large numbers
- (D) Callus-Unorganised mass of cells produced in tissue culture

CORRECT ANSWER: B

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Q-9 - 14537796

Which of the following two matches are incorrect?

Exotic breeds of cattle Country of origin

(i) Jersey Holland

(ii) Holstein-Friesian Germany

(iii) Ayrshire Scotland

(iv) Brown Swiss Switzerland

(A) (i) and (iii)

(B) (i) and (ii)

(C) (ii) and (iii)

(D) (ii) and (iv)

CORRECT ANSWER: B

SOLUTION:

Jersey is form Island of Jersey in English Channel and Holstein-Friesian is from Holland.

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Q-10 - 18706420

In virus-infected plants the meristematic tissues in both apical and axillary buds are free of virus because

- (A) The dividing cells are virus resistant
- (B) Meristems have anti viral compounds
- (C) The cell division of meristems are faster than the rate of viral multiplication
- (D) Viruses cannot multiply within meristem cells.

CORRECT ANSWER: C



High milk yielding cross bred Frieswal cow is the product of

- (A) Brown Swiss \times Sahiwal
- (B) Friesian \times Sahiwal
- (C) Holstein \times Tharparkar
- (D) Brown Swiss \times Red sindhi.

CORRECT ANSWER: B

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Q-12 - 18706411

Salt tolerant transgenic has been developed for

(A) Brinjal

(B) Grape (C) Potato (D) Tomato **CORRECT ANSWER: D** Watch Video Solution On Doubtnut App Q-13 - 14537811 Which of the following statements is not correct regarding inbreeding? (A) It is the breeding between animals of the same breed. (B) It decreases homozygosity. (C) It exposes harmful recessive genes. (D) It helps in accumulation of superior genes.

CORRECT ANSWER: B
SOLUTION:
Inbreeding increases homozygosity.
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Q-14 - 18706400
Two plants growing in different seasons and different geographical area, can produce hybrid by
(A) Pollen culture
(B) Tissue culture
(C) Somatic embryogenesis
(D) Invitro synthesis
CORRECT ANSWER: B

Q-15 - 14537813

Continued inbreeding, especially close inbreeding generally results in

- (A) inbreeding depression
- (B) inbreeding stimulation
- (C) inbreeding hybridisation
- (D) inbreeding mutation.

CORRECT ANSWER: A

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Q-16 - 18706397

In plant tissue culture, the callus tissues can be regenerated into

complete plantlets primarily by altering the concentration of
(A) Sugars
(B) Vitamins
(C) Amino acids
(D) Hormones
CORRECT ANSWER: D
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Q-17 - 14537892
Biofortifications refers to the development of crop plants which are
(A) resistant to disease
(B) resistant to insect pests
(C) having improved nutritional quality

(D) having improved iron content.

CORRECT ANSWER: C

SOLUTION:

Breeding of cops with higher levels of vitamins ans minerals or higher protein and healthier fats is called biofortification. Breeding for improved nutritional quality is undertaken with objectives of improving protein, oil and vitamin content and quality, along with micronutrient and mineral content.

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Q-18 - 14537816

Given below are four statements (i)-(iv). Which two of the following statements are correct?

(i) It is estimated that more than 70 percent of the world livestock

population is in India and China.
(ii) Stringent cleanliness and hygiene (both of the cattle and the
handless) are of paramount importance while milking, storage and
transport of the milk and products.
(iii) Out-breeding is the breeding between animals of the same
breed only.
(iv) Corsses between different breeds is called inbreeding.
(A) (i) and (ii)
(B) (ii) and (iv)
(C) (i) and (iv)
(D) (ii) and (iii)
CORRECT ANSWER: A
SOLUTION:
Out-breeding is the breeding of unrelated animals which

may be between individuals of the same breed but having no common ancestors for 4-6 generations or different breeds or different species. Inbreeding is breeding between animals of the same breed for $4-6\,$ generations.

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Q-19 - 14537933

In virus-infected plants the meristematic tissues in both apical and axillary buds are free of virus because

- (A) the dividing cells are virus resistant
- (B) meristems have anti viral compounds
- (C) the cell division of meristems are faster the rate of viral multiplication
- (D) viruses cannot multiply meristem cell (s).

CORRECT ANSWER: C

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Q-20 - 14537821

Which of the following is example of cross-breed?

- (A) Mule
- (B) Hilsa
- (C) Hisardale
- (D) Sahiwal

CORRECT ANSWER: C

SOLUTION:

Hisardale is cross breed of sheep developed in punjab by crossing Bikaneri ewes and rams. Q-21 - 18706383

The latest trend in plant disease control is

- (A) Chemical control
- (B) Biological control
- (C) Use of fertilizers
- (D) Use of disease resistant varieties

CORRECT ANSWER: D

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Q-22 - 14537832

MOET stands for

- (A) Multiple Ovulation and Egg Transfer Technology
- (B) Multiple Ovary and Embryo Transfer Technology
- (C) Multiple Ovulation Embryo Transfer Technology
- (D) Method of Egg Transfer Technology.

CORRECT ANSWER: C

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Q-23 - 18706342

Desired improved variety of economically useful crops are raised by

- (A) Natural selection
- (B) Hybridization
- (C) Mutation

(D) Biofertilizer

CORRECT ANSWER: B

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Q-24 - 14537834

Given below are four statements (A-D) each with one or two blanks. Select option which correctly fills up the blanks in any two statements.

- (A) Multiple ovulation i transfer teachnology is for ii improvement.
- (B) In it a cow is administered i to induce follicular maturation and ii ovulation.
- (C) Instead of one egg per cycle, *i* eggs are produced through it.
- (D) The fertilised i at ii celled stages are recovered non-surgically and transferred to surrogate mothers.

- (A) (A)-(i) pireline, (B)-(i) oestrogen, (ii) poly
- (B) (A)-(i) embryo, (ii) herd, (D)-(i) zygote, (ii) 4-6
- (C) (C)-(i) 6-8, (D)-(i) eggs, (ii) 4-8
- (D) (B)-(i) FSH, (ii) super, (C)-(i) 6-8

CORRECT ANSWER: D

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Q-25 - 18706336

The alkaloid from Colchicum autumnale of Liliaceae induces

- (A) Sterility
- (B) Dormancy
- (C) Cell division
- (D) Polyploidy

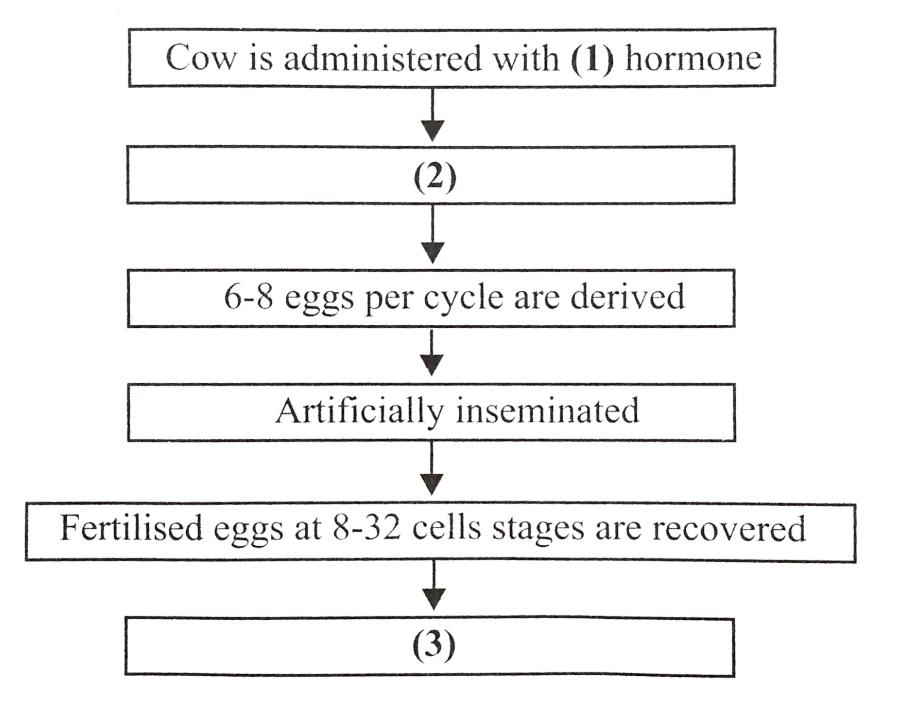
CORRECT ANSWER: D

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Q-26 - 14537836

Given flow chart represents different steps pf MOET. Study the flow chart carefully and select the correct answer for (1),(2) and (3).



- (A) 1-FSH, 2-super ovulation due to induced follicular maturation, 3-Transfer to surrogate mother.
- (B) 1-LH, 2-super ovulation due to induced follicular maturation, 3-Transfer to surrogate mother
- (C) 1-Progesterone, 2-Super ovulation due to induced follicular maturation, 3-Transfer to surrogate mother
- (D) 1-FSH, 2-Transfer to surrogate mother, 3-Superovulation due to induced follicular maturation

CORRECT ANSWER: A

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The Triticum aestivum wheat is

(A) Haploid (7 chromosome)

(B) Diploid (14 chromosome) (C) Tetraploid (30 chromosomes) (D) Hexaploid (42 chromosomes) **CORRECT ANSWER: D** Watch Video Solution On Doubtnut App Q-28 - 14537824 Crossing of individuala of two different species to produce a hybride is called (A) intersepcific hybridisation (B) intervarietal hybridisation (C) intergeneric hybridisation (D) intravarietal hybridisation.

CORRECT ANSWER: A

SOLUTION:

In interspecific hydridisation, a species is mated with a different related species of the same genus. Interspecific hybrids are generally difficult to produce, but they are important in plant breeding, particularly in breeding for disease resistance. This is also called intrageneric hybridisation

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Q-29 - 18706330

In which crops is the method of mass selection applied

- (A) Cross-pollinated
- (B) Self-pollinated

(C) Both self and cross-pollinated (D) Potato and sugarcane **CORRECT ANSWER: A** Watch Video Solution On Doubtnut App Q-30 - 14537839 In livestock breeding experiments, which of the following stages is transferred to surrogate mothers? (A) Unfertilised eggs (B) Fertiliser eggs (C) 8 to 32 celled embryo (D) Frozen semen **CORRECT ANSWER: C**

Q-31 - 18706334

Single cell protein refers to

- (A) A specific protein extracted from pure culture of single type of cells
- (B) Source of mixed proteins extracted from pure or mixed culture of organisms or cells
- (C) Proteins extracted from a single cell
- (D) A specific protein extracted from a single cell

CORRECT ANSWER: B

SOLUTION:

The term Single Cell Protein (SCP) was coined at Massachusetts institute of technology (MIT) by a group

of scientist in 1966. It is dried cell of micro-organisms or microbes (algae, bacteria, actinomycetes and fungi) used as food. SCP is rich in high quality protein and is poor in fats.

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Q-32 - 14537845

Beewax is the secretion of abdominal glands of

- (A) drones
- (B) worker bees
- (C) queen bees
- (D) worker and queen bees.

CORRECT ANSWER: B



Which one of the following chemical induces polyploidy in plant cells

Or

Autopolyploidy can be induced artificially by

- (A) 2,4-dichlorophenoxy acetic acid
- (B) Rifampicin
- (C) Cytokinine
- (D) Colchicine

CORRECT ANSWER: D

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Which of the following points are important for successful bee-
keepinf?
(i) Knowledge of the nature and habits of bees.
(ii) Selection of suitable location for keeping the beehives.
(iii) Management of beehives different seasons.
(iv) Cross hybridisation among the selected parents.
(A) (i),(iii) and (iv)
(B) (ii) and (iv)
(C) (i), (ii) and (iii)
(D) (i) and (iii)
CORRECT ANSWER: C
SOLUTION:
Following points are important for successful
beekeeping:

- (i) Knowledge of the nature and habits of bees.
- (ii) Selection of suitable location for keeping the beehives.
- (iii) Management of beehives during different seasons.
- (iv) Catching and hiving of swarms.
- (v) Handing and collection of honey and beeswax.

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Q-35 - 18706329

Plants having similar genotypes produced by plant breeding are called

- (A) Clone
- (B) Haploid
- (C) Autopolyploid
- (D) Genome

CORRECT ANSWER: A

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Q-36 - 14537863

Germplasm collection is the collection of

- (A) germ cells
- (B) semens
- (C) plants/seeds with all the diverse alleles for all genes
- (D) egg cells.

CORRECT ANSWER: C

SOLUTION:

Germplasm is the sum total of all the alleles of the genes present in a crop and its related species. The germplasm of any crop species consists of the following types of materials: cultivated improved varieties, improved varieties that are no more in cultivation or 'desi' varieties, pure lines produced by plant breeders, and wild species related to the crop species.

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Q-37 - 18706332

Which of the following condition is hybrid breakdown

- (A) Failure of hybrid adult to produce functional gametes
- (B) Failure of the fusion of ova and sperm plant breed of two species
- (C) Failure of hybrid zygote to develop into an offsping
- (D) None of these

CORRECT ANSWER: C

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Q-38 - 14537849

Apis dorsata is

- (A) little bee
- (B) rock bee
- (C) European bee
- (D) Indian bee

CORRECT ANSWER: B

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Q-39 - 18706340

Which of the statement about breeding is wrong

- (A) By inbreeding purelines cannot be evolved
- (B) Continued inbreeding especially close inbreeding reduce fertility and productivity
- (C) Cross breeding allows desirable qualities of two different breeds to be conbined
- (D) Inbreeding exposes harmful recessive genes that are elimlinated by selection

CORRECT ANSWER: A

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Q-40 - 14537843

Which of the following plays a role in indigenous system of medicine?

(A) Plant breeding

- (B) Fisheries
- (C) Apiculture
- (D) MOET

CORRECT ANSWER: C

SOLUTION:

Apiculture or beekeeping is the maintenance of hives of honeybees for the production of honet. Honey has high nutritive value and also finds use in the indigenous system of medicine.

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Q-41 - 18706445

Paresexual hybridization means

(A) Fusion of male gamete with female gamete

- (B) Fusion of male gamete with synergid nucleus
- (C) Fusion of somatic protoplasts
- (D) Fusion of male gamete with protoplasts

CORRECT ANSWER: C

SOLUTION:

Parasexual hybridization means fusion of somatic protoplast.It is found in fungus.

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Q-42 - 14537833

Given below are the three statements each with one or two blanks.

Select the option which correctly fills up of the blank in any two statements.

A. Inbreeding helps in accumulation of i and elimination of ii.

- B. In MOET a cow is administered hormones, with i like activity, to induce follicular maturation and super ovulation.
- C. Hisaedale is a new breed of sheep developed in Punjab by crossing i and ii.
 - (A) A-(i) less desirable genes, (ii) superior genes B-FSH
 - (B) A-(i)superior genes, (ii) less desirable genes, (ii) less
 - C-(i) Bikaneri ewes (ii) Marino rams
 - (C) B-(i) LH
 - C-(i) Sahiwal ewes, (ii) Deoni rams
 - (D) B-(i) progesterone
 - C-(i) Kankrej ewes, (ii) Dangi rams

CORRECT ANSWER: B

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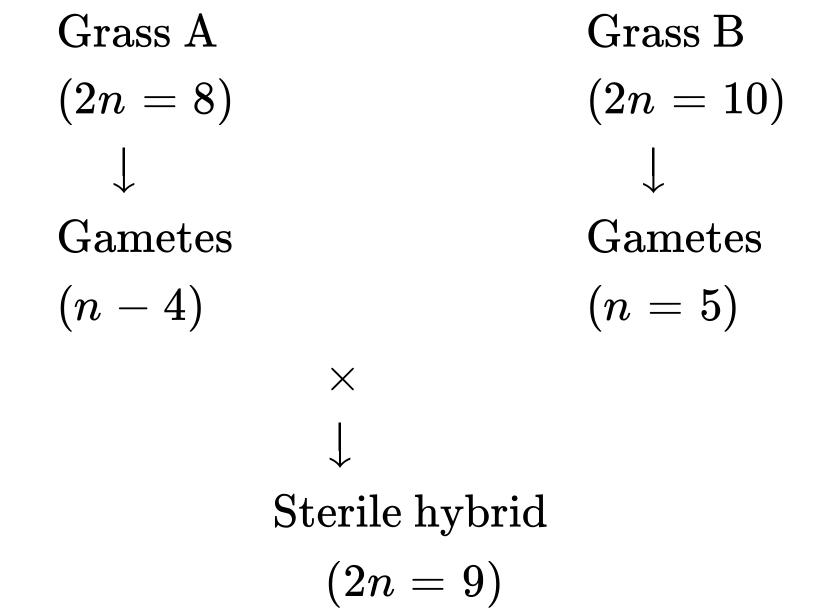
A certain type of grass has a diploid chromosome number of 8. A
similar species of grass has a diploid chromosome number of 10.
Interspecific hybridisation between the two species results in sterile
hybrids that can, nonetheles, reproduce vegetatively. The diploid
chromosome number of these hybrids would be

- (A) 9
- (B) 16
- (C) 18
- (D) 20

CORRECT ANSWER: A

SOLUTION:

The cross between these species can be represented as follows:



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Q-44 - 14537823

Hisardale is a new breed of sheep developed in Punjab by crossing

- (A) Merino ram and Bikaneri ewe
- (B) Assel ram and White leghorn ewe
- (C) Rhode Island ram and White leghorn ewe
- (D) Cochin ram and Ghagus ewe.

CORRECT ANSWER: A

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Q-45 - 14537792

The infectious and contagious bacterial disease that affects cattle, buffaloes, horses, sheeps and goats is

- (A) anthrax
- (B) rinderpest
- (C) tick fever
- (D) necrosis

CORRECT ANSWER: A

SOLUTION:

Anthrax is an acute infectious disease of farm animals

caused by the bacterium Bacillus anthracis, which can also be transmitted to human by contact with animal hair, hides or excrement.

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Q-46 - 14537907

Somaclones are

- (A) somatic hybrids
- (B) genetically identical to the original plant
- (C) used to recover disease free plants
- (D) sterile plants.

CORRECT ANSWER: B

SOLUTION:

Somaclones are genetically indentical plants developed from any part of a plant by tissue culture micropropagation.

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Q-47 - 14537835

Multiple ovulation embryo tranfer technology is related to

- (A) transfer of super embryo
- (B) transfer of super eggs
- (C) super ovulation and embryo trasnfer
- (D) both (a) and (b)

CORRECT ANSWER: C

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In which of the following options, the different breeds are not correctly placed?

(A)

Breeds of buffalo Breeds of cattle

Murrah Hallikar

(B)

Breeds of buffalo Breeds of cattle

Bhadawari Kankrej

(C)

Breeds of buffalo Breeds of cattle

Mehsana Tharparkar

(D)

Breeds of buffalo Breeds of cattle

Chegu Jaffarabadi

CORRECT ANSWER: D

SOLUTION:

Chegu is a breed of goat. Jaffarabadi is a breed of buffalo.

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Q-49 - 18706441

In protoplast fusion which chemical is used

- (A) DMSO
- (B) Liquid N_2
- (C) Pectinase
- (D) PEG

CORRECT ANSWER: D

SOLUTION:

Polyethylene glycol is the most commonly used chemical in protoplast fusion as it induce reproducible high frequency fusion accompanied with low toxicity to most cell types.

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Q-50 - 18706410

The genetically -modified (GM) brinjal in India has been developed for

- (A) Drought-resistance
- (B) Insect-resistance
- (C) Enhancing shelf life
- (D) Enhancing mineral content

CORRECT ANSWER: B

Q-51 - 14537799

Which of the following is a draught breed of Indian cattle?

- (A) Malvi
- (B) Gir
- (C) Sahiwal
- (D) Deoni

CORRECT ANSWER: A

SOLUTION:

Malvi is a draught breed of indian cattle. The bullocks of draught breed are good for working but cows are poor milk producers.



Q-52 - 18706398

Hybrid vigour is mostly due to

- (A) Superiority of all the genes
- (B) Homozygosity of pure characters
- (C) Heterozygosity
- (D) None of these

CORRECT ANSWER: C

SOLUTION:

Hybrid vigour is also called heterosis. It results from the union of genetically different gametes (heterozygosity).

A breed of cow is mated with closely related breed for five generations. It was found that production of milk has reduced subsequently and the animals are not keeping good health. Which of the following methods of animals breeding can overcome this problem?

- (A) Hybridisation
- (B) Controlled breeding
- (C) Out-crossing
- (D) Crossing breeding

CORRECT ANSWER: C

SOLUTION:

Continued inbreeding reduces fertility and productivity.

This is called inbreeding depression. This problem can be overcome by out-crossing. Out-crossing is the practice of mating of animals within the same of their pedigree upto 4-6 generations. The offspring of such a malting is known as out-cross. A single outcross often helps to overcome inbreeding depression.

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Q-54 - 14537931

Sonalika and Kalyan Sona are varieties of

- (A) wheat
- (B) rice
- (C) millet
- (D) tobacco

CORRECT ANSWER: A	
SOLUTION:	-
Sonalika and kalyan Sona are high yielding and disease	
resistant varieties of wheat.	
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Q-55 - 14537820	
Il up the blanks by selecting the correct option.	
cross-breeding, of one breed are mated with	of
other breed.	
(A) superior males, normal females	
(B) normal males, superior, superior females	
(C) normal males, normal females	
(D) superior males, superior females	
	SOLUTION: Sonalika and kalyan Sona are high yielding and disease resistant varieties of wheat. Watch Video Solution On Doubtnut App Description: Up the blanks by selecting the correct option. Cross-breeding, of one breed are mated with other breed. (A) superior males, normal females (B) normal males, superior, superior females (C) normal males, normal females

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Q-56 - 18706447

It shows correct chronological order of the events occurring during callus culture

- (A) Callus \rightarrow Cell division \rightarrow Explant \rightarrow Addition of cytokinin \rightarrow Acquire meristematic property
- (B) Explant \to Callus \to Cell division \to Addition of cytokinin \to Cells acquire meristematic property
- (C) Explant \to Cell division \to Callus \to Addition of cytokinin \to Cells acquire meristematic property
- (D) Callus \rightarrow Explant \rightarrow Cell division \rightarrow Addition of cytokinin \rightarrow Cells acquire meristematic property

CORRECT ANSWER: C

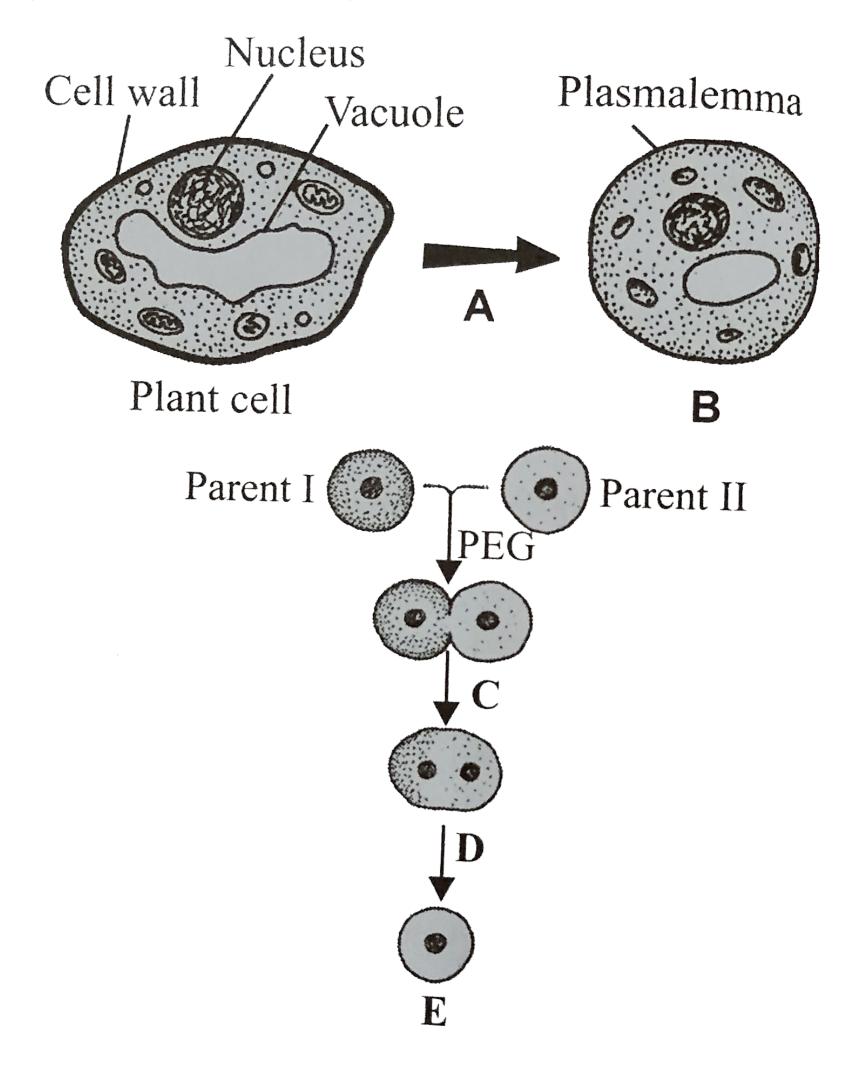
SOLUTION:

Callus culture is a type of in vitro plant tissue culture. The process is carried out under controlled conditions. The selected cell, tissue or organ is called-explant. The number of cells increases through cell division. However, these cells are unorganized and collectively constitute a callus. They are maintained on agar-agargel. Growth promoters like auxin and cytokinins are added to the culture. Under these condition, the cells become meristematic and begin to divide. Callus to obtained within 2 to 3 weeks.

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Given below is the flow chart showing the process of somatic hybridisation. Identify A,B,C,D and E.



(A) A-Cell fusion, B-Nuclear fusion, C-Cellulase and pectinase, D-Ptotoplast, E-Somatic hybride cell

- (B) A-Cellulase and pectinase, B-Protoplast, C-Cell fusion, D-Nuclear Fusion, E-Somatic hybrid cell
- (C) A-Protoplast, B-Nuclear fusion, C-Somatic hybride cell, D-Cellulase and pectinase, E-Cell fusion
- (D) A-Cellulase and pectinase, B-Protoplast, C-Nuclear fusion, D-cell fusion, E-Somatic hybrid cell

CORRECT ANSWER: B

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Q-58 - 14537808

What strategy would you suggest if a person wants to evolve a pure line in an animal?

- (A) Cross-breeding
- (B) Inbreeding

- (C) Out-breeding
- (D) Artifical insemination

CORRECT ANSWER: B

SOLUTION:

Inbreeding increases homozygosity and thus, is necessary for evolving a pure line in any animal.

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