



BIOLOGY

BOOKS - ARIHANT PUBLICATION

IMPROVEMENT IN FOOD RESOURCES

Question Bank

1. Inbreeding in animal husbandry cause it

A. increases vigour

B. improves the breed

C. increases in heterozygosity

D. increases in homozygosity

Answer: D



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2. which method is used to eliminate inbreeding depression?

A. Interspecific hybridisation

B. Outcrossing

C. Both (1) and (2)

D. none of the above

Answer: C



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3. Cross-breeding

I. refer to the cross of superior male of one breed with superior female of another breed.

II. it helps to accumulate the desirable genes

of the two breeds into a progeny.

III. the progeny may be used for commercial production.

Which of the statements given above are correct?

A. I and II

B. I and III

C. II and III

D. All of these

Answer: D



4. Which among the following is an exotic cattle breed introduced in India?

A. Ongole

B. Holstein

C. Sahiwal

D. Red Sindhi

Answer: B



5. Match the following columns.

Column I	Column II
A. Brown Swiss	1. Indian cattle breed
B. Aseel	2. Indian fowl breed
C. New Hampshire	3. Exotic cattle breed
D. Hallikar	4. Exotic fowl breed

- A. Codes
 A B C D A B C D
 (1) 3 2 4 1 (2) 1 4 3 2
 (3) 2 4 3 1 (4) 4 3 1 2

- B. Codes
 A B C D A B C D
 (1) 3 2 4 1 (2) 1 4 3 2
 (3) 2 4 3 1 (4) 4 3 1 2

- C. Codes
 A B C D A B C D
 (1) 3 2 4 1 (2) 1 4 3 2
 (3) 2 4 3 1 (4) 4 3 1 2

- D. Codes
 A B C D A B C D
 (1) 3 2 4 1 (2) 1 4 3 2
 (3) 2 4 3 1 (4) 4 3 1 2

Answer: A



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6. Which is called as a 'poor man's cow'?

A. Sheep

B. Yak

C. Goat

D. Camel

Answer: C



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7. The world's highly priced yielding 'Pashmina' breed is

A. sheep

B. goat

C. goat-sheep cross

D. Kashmiru sheep-Afghan sheep cross

Answer: B



8. A major cattle viral disease is

A. brucellosis

B. foot and mouth disease

C. ringworm

D. None of the above

Answer: B



9. Choose the incorrect statements.

I. Mule is considered as one of the beast of burden.

II. Buffaloes have about three times more milk yielding capacity than cow.

III. Broilers are meat yielding birds.

A. Only I

B. Only II

C. I,II and III

D. None of the above

Answer: D



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10. Which amongst the following is a viral disease?

- A. Fowl cholera
- B. Aspergillosis
- C. Newcastle disease
- D. Salmonellosis

Answer: C



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11. Pick the incorrect statement regarding bird flu.

- A. It is an avian influenza
- B. It is not caused by H_5N_1 virus
- C. It is not fatal disease in birds

D. Humans are affected by bird flu as a result of direct or close contact with infected poultry.

Answer: C



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12. What is/are the characteristics of honeybees?

A. Colonial

B. Socially polymorphic

C. Show division of labour

D. all of the above

Answer: D



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13. Name the sugars present in honey.

A. Levulose

B. Maltose

C. Dextrose

D. All of these

Answer: D



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14. Match the following columns.

Column I	Column II
A. Zebu	1. <i>Apis indica</i>
B. Goat	2. <i>Bombyx mori</i>
C. Honeybee	3. <i>Bos indicus</i>
D. Rohu	4. <i>Capra capra</i>
E. Mulberry silkworm	5. <i>Labeo rohita</i>

Codes

- | | A | B | C | D | E |
|-----|---|---|---|---|---|
| (1) | 1 | 2 | 3 | 4 | 5 |
| (2) | 3 | 4 | 1 | 5 | 2 |
| (3) | 5 | 3 | 1 | 2 | 4 |
| (4) | 4 | 3 | 2 | 1 | 5 |

A.

Codes

- | | A | B | C | D | E |
|-----|---|---|---|---|---|
| (1) | 1 | 2 | 3 | 4 | 5 |
| (2) | 3 | 4 | 1 | 5 | 2 |
| (3) | 5 | 3 | 1 | 2 | 4 |
| (4) | 4 | 3 | 2 | 1 | 5 |

B.

Codes

- | | A | B | C | D | E |
|-----|---|---|---|---|---|
| (1) | 1 | 2 | 3 | 4 | 5 |
| (2) | 3 | 4 | 1 | 5 | 2 |
| (3) | 5 | 3 | 1 | 2 | 4 |
| (4) | 4 | 3 | 2 | 1 | 5 |

C.

Codes

- | | A | B | C | D | E |
|-----|---|---|---|---|---|
| (1) | 1 | 2 | 3 | 4 | 5 |
| (2) | 3 | 4 | 1 | 5 | 2 |
| (3) | 5 | 3 | 1 | 2 | 4 |
| (4) | 4 | 3 | 2 | 1 | 5 |

D.

Answer: B



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15. Bombyx mori is a

A. eri silkworm

B. mulberry silkworm

C. rasar silkworm muga silkworm

D.

Answer: B



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16. Which of the following is a viral disease in silkworm?

A. Flacherie

B. Pebrine

C. Grasserie

D. Both (1) and (3)

Answer: D



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17. Which one of the following is a marine fish?

A. Rohu

B. Hllsa

C. Catia

D. Common Carp

Answer: B



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18. Which one of the following is a viral disease of poultry?

A. Salmonellosis

B. Coryza

C. Newcastle disease

D. Pasteurellosis

Answer: C



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19. Which one of the following pairs is mismatched?

A. *Pila globosa*-Pearl

B. *Apis indica*-Honey

C. *Kerria lacca*-Lac

D. *Bombyx mori*-Silk

Answer: A



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20. Hypophysation is done in fishes to

- A. increase size
- B. increase their growth
- C. cause breeding in fisheries
- D. increase their palatability

Answer: C



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21. Match the following columns.

Column I	Column II
A. Bhandawari	1. South India
B. Murrah	2. Rajasthan
C. Nagpuri	3. Uttar Pradesh
D. Surti	4. Haryana
E. Nili Ravi	5. Punjab

Codes

- A B C D E
(1) 3 5 2 1 4
(2) 1 5 2 3 4
(3) 3 4 1 2 5
(4) 2 5 1 3 4

A.

Codes

- A B C D E
(1) 3 5 2 1 4
(2) 1 5 2 3 4
(3) 3 4 1 2 5
(4) 2 5 1 3 4

B.

Codes

- A B C D E
(1) 3 5 2 1 4
(2) 1 5 2 3 4
(3) 3 4 1 2 5
(4) 2 5 1 3 4

C.

Codes

A B C D E

(1) 3 5 2 1 4

(2) 1 5 2 3 4

(3) 3 4 1 2 5

D. (4) 2 5 1 3 4

Answer: C



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22. Zebu is

A. *Bos indicus*

B. *Gallus gallus*

C. *Bubalus bubalis*

D. *Bombyx mori*

Answer: A



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23. Which of the following is an exotic fish imported in India from England?

A. *Osphronemus goramy*

B. *Tinca tinca*

C. *Carassius carassius*

D. *Cyprinus carpio*

Answer: B



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24. Which of the following is not correctly matched?

A. Eel-*Anguilla*

B. Mail-Wallago *attu*

C. Calbasu-*Labeo rohita*

D. Pomfret-Stromateus

Answer: C



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25. Higher milk yielding best breed of milch cattle in the world is

A. Brown Jersey

B. Ongole

C. Holstein-Friesian

Answer: C



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26. Match the following columns.

Column I	Column II
A. Milk, leather and butter	1. Goat
B. Milk and flesh	2. Horse
C. Transport and flesh	3. Sheep
D. Fur, milk and meat	4. Buffalo

Codes

A B C D A B C D
(1) 4 1 2 3 (2) 1 3 2 4
(3) 1 2 4 3 (4) 3 2 1 4

A.

Codes

- B. A B C D A B C D
(1) 4 1 2 3 (2) 1 3 2 4
(3) 1 2 4 3 (4) 3 2 1 4

Codes

- C. A B C D A B C D
(1) 4 1 2 3 (2) 1 3 2 4
(3) 1 2 4 3 (4) 3 2 1 4

Codes

- D. A B C D A B C D
(1) 4 1 2 3 (2) 1 3 2 4
(3) 1 2 4 3 (4) 3 2 1 4

Answer: A



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27. Hybrid breed of cattle is

A. Sunandini

B. Holstein

C. Brown Swiss

D. Kankrej

Answer: C



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28. Mating of two varieties of a cattle breed like Red Dane which have no common ancestors on either side of their pedigree up to 4-6 generations is an example for.

A. inbreeding

B. cross-breeding

C. outcrossing

D. interspecific hybridisation

Answer: C



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29. Which of the following is breed of cattle?

A. Ayrshire

B. Ghagus

C. Kadaknath

D. Scampi

Answer: A



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30. In maize, hybrid vigour is exploited by:

A. harvesting seeds from the most
productive plants

B. inducing mutations

C. bombarding the protoplast with DNA

D. crossing of two inbred parental lines

Answer: D



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31. Plant breeding methods by which new and better varieties of plants can be formed

A. hybridisation

B. selection

C. testing

D. hybridisation followed by selection

Answer: D



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32. Given below are statements regarding mutational breeding. Choose the wrong statement.

I. It involves changing the type of plant

through mutations.

II. It can be done only on somatic cells.

III. Both physical mutagens (radiations) or chemical mutagens

IV. Sonora-64 is an example of mutational breeding in India.

A. I and II

B. I, II and IV

C. Only II

D. III and IV

Answer: A



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33. Choose the correct statement(s).

I. *Triticum aestivum* (wheat) is an artificial hexaploid.

II. Triticale is the first man-made cereal crop.

III. Polyploid individuals carry more than two genome.

IV. Atlas-66 is a biofortified wheat crop.

A. I, II and III

B. I and IV

C. II, III and IV

D. Only II

Answer: C



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34. Match the following columns.

Column I	Column II
A. Totipotency	1. Part of a plant grown <i>in vitro</i> .
B. Callus	2. Hybrid plants produced through protoplast fusion.
C. Protoplast culture	3. Undifferentiated tissue.
D. Explant	4. Capacity of a cell to produce whole plant.

A. Codes
 A B C D A B C D
 (1) 1 3 2 4 (2) 4 3 2 1
 (3) 4 3 1 2 (4) 3 4 2 1

B. Codes
 A B C D A B C D
 (1) 1 3 2 4 (2) 4 3 2 1
 (3) 4 3 1 2 (4) 3 4 2 1

C. Codes
 A B C D A B C D
 (1) 1 3 2 4 (2) 4 3 2 1
 (3) 4 3 1 2 (4) 3 4 2 1

D. Codes
 A B C D A B C D
 (1) 1 3 2 4 (2) 4 3 2 1
 (3) 4 3 1 2 (4) 3 4 2 1

Answer: B



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35. Crosses involving plants of the same varieties are

- A. intervarietal
- B. interspecific
- C. intervarietal
- D. intrageneric

Answer: A



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36. Clonal cell lines can be obtained by :

- A. tissue culture
- B. tissue fractionation
- C. tissue homogenisation
- D. tissue system

Answer: A



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37. Haploid plant cultures are obtained from

A. leaves

B. root tip

C. pollen grain

D. buds

Answer: C



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38. Which of the following is used in tissue culture for production of disease free plants?

A. Shoot apical meristem

B. Lateral meristem

C. Intercalary meristem

D. None of the above

Answer: A



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39. Which of the following statements regarding single cell protein are true?

I. It contains high quality fat and low protein content.

II. *Fusarium graminearum* is a yeast that produces SCP.

III. It reduces pressure on agricultural production system.

IV. *Spirulina* is a cyanobacteria which produces SCP.

A. I and II

B. II and III

C. III and IV

D. I and IV

Answer: C



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40. Mutation breeding is carried out by

I. inducing mutations in plants by various means.

II. screening the plant for resistance.

III. selecting the desirable plant for multiplication and breeding.

Choose the correct option.

A. I and II

B. i and III

C. II and III

D. All of these

Answer: D



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