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Date: 13/10/2022

Subject: BOTANY

Topic : Strategies for Enhancement
in Food Production L1

Class: Standard XI

1. Which of the following best defines the process of animal breeding?
 - A. Management of animals for obtaining milk and its products
 - B. Rearing, feeding and mating of livestock for obtaining eggs and meat
 - C. Mating closely related animals of the same breed
 - D. Controlled mating of animals followed by their selection to obtain superior genotypes
2. Read the following statements (1- 4). Which of the following statements are true related to disadvantages of natural breeding.
 1. Requirement of a large space for mating the animals.
 2. Requirement of expensive laboratory facilities and expert staffs for carrying out breeding techniques.
 3. Huge expenditure on rearing and feeding the animals.
 4. More expenditure on vaccination and disease treatment of the animals throughout the year.
 - A. 2 and 3
 - B. 1 and 3
 - C. 3 and 4
 - D. 1, 3 and 4
3. Match the images to the phases of the moon.
4. Our moon revolves around the Earth.

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5. *Primrose* exhibit which type of placentation?
- A. Marginal
 - B. Axile
 - C. Free central
 - D. Basal
6. Which of the following is true about 'natural breeding'?
- A. It involves selecting animals with desirable characteristics and allowing them to mate on their own
 - B. It involves injecting the semen from the selected male into the reproductive tract of the selected female
 - C. It involves only random breeding
 - D. It involves the use of surrogate mothers to give birth to the offspring
7. The main objectives of animal breeding is
- 1. to obtain increased yield and better quality of products.
 - 2. to develop breeds with longer productive life.
 - 3. to reduce the reproductive rate in animals.
 - 4. to develop disease resistant breeds of animals.
- A. 1, 2 and 3
 - B. 1 and 2
 - C. 1, 2 and 4
 - D. Only 4
8. Purelines in cattles can be obtained by _____.
- A. mating of unrelated individuals of the same breed
 - B. mating of related individuals of the same breed
 - C. mating of individuals belonging to different species
 - D. mating of individuals belonging to different breeds

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9. Which of the following are advantages of natural breeding?
- I. Reduction of effort of breeders and ease of mating between males and female with superior characters.
 - II. Semen collected from the superior males can be preserved and used later.
 - III. There are less chances of spreading of contagious diseases.
 - IV. It does not involve heavy expenditure on laboratories, equipments or expert personnel.
- A.** I and II
 - B.** Only I
 - C.** III and IV
 - D.** I and IV
10. The technique involving collection of the semen from the desired male followed by injecting it into the reproductive tract of the selected female is called _____ .
- A.** animal breeding
 - B.** artificial insemination
 - C.** out-breeding
 - D.** inbreeding