

**Biology**  
**Classified MCQ**  
**Unit 10**  
**2000 - 2020**

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## Unit 10 - Applied Biology

### Methods of plant propagation

- (1) Which of the following is not a method of artificial vegetative propagation of plants?  
(1) use of stems cuttings (2) Layering  
(3) Tissue culture (4) Propagation by bulbils  
(5) Grafting (2000)
- (2) Which one of the following statements is incorrect regarding tissue culture techniques? In tissue culture techniques  
(1) Large number of plants are produced within a short time.  
(2) New species of plants are produced.  
(3) Plant tissues are cultured in artificial media.  
(4) Plants are cultivated free of climatic influence.  
(5) Uniform quality is maintained in plant populations. (2001)
- (3) Which of the following is incorrect regarding the use of tissue culture techniques in the propagation of plants?  
(1) It can be used to propagate plants irrespective of seasonal variations.  
(2) It can be used to increase genetic diversity of plants.  
(3) It can be used to produce large number of plants in a limited space.  
(4) It can be used to produce plants faster.  
(5) It can be used to propagate seedless plants. (2005)
- (4) Which of the following is incorrect regarding weeds?  
(1) Scion and stock can come from different varieties of plants.  
(2) Cambial tissues of stock and scion should come in contact.  
(3) It can be used to produce large number of similar trees quickly.  
(4) It can be used to prevent some diseases.  
(5) Scion should be treated with fungicide before grafting. (2010)
- (5) Which of the following statements regarding plant tissue culture is incorrect?  
(1) Plant tissue culture is the growing of plant tissues in sterile culture media with IAA under in vitro conditions.  
(2) Many plant cells have the ability to generate a total plant when suitable conditions are provided.  
(3) Different parts or tissues of a plant can be used as explants to initiate tissue culture.  
(4) Callus is a mass of undifferentiated and dividing cells produced from the explant in tissue culture.  
(5) A benefit of tissue culture is producing large number of plants with the same genotype rapidly in a small space. (2017-29)
- (6) Which of the following features is not found in the plant given against it?  
(1) Horizontally growing underground stem, bearing aerial shoots - *Solanum*  
(2) Short swollen underground stem growing vertically, bearing aerial shoots - *Colocasia*  
(3) Lateral branches growing horizontally from axillary buds of the erect stem - *Centella*  
(4) Axillary buds of the aerial stem growing into small shoots with leaves and separating from main stem to produce new plants. - *Dioscorea*  
(5) Buds arising from vegetative parts other than the stem - *Bryophyllum* (2017-30)

## Methods of Food preservation

(1) Which of the following methods of food preservation is likely to produce a food completely devoid of live microorganisms?

- (1) Salting                      (2) Drying                      (3) Smoking  
(4) Canning                      (5) Pasteurization

(2010-39)

(40) Food preservation is based on the following principles.

- a - Prevention of entry of microorganisms into food  
b - Prevention of growth and activity of microorganisms in food  
c - Removal or killing of microorganisms in food

Canning of food is based on which of the above principles?

- (1) a, b and c                      (2) a and b only                      (3) a and c only  
(4) b and c only                      (5) c only

(2018-40)

## **Unit 10 - Applied Biology**

### **Methods of plant propagation**

(1)	4	(2)	2	(3)	2	(4)	5	(5)	1	(6)	1/4
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### **Methods of Food preservation**

(1)	4	(2)	1
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