

Fill in the blanks :

- (i) Natural _____ are obtained from the inflorescences of the plant *Cannabis sativa*.
- (ii) Pyramid of energy is always _____.
- (iii) Apple is an example of _____ fruit.
- (iv) Occurrence of more than one embryos in a seed called _____.
- (v) The inner glandular layer of uterus is called _____.
- (vi) Fertilization is taken place in _____.
- (vii) _____ conducted hybridization experiments on garden peas for Seven years.

Write answer in one word / one sentence :

- i) Write the name of one 'Hotspot' of India.
- ii) What is molecular scissors ?
- iii) Write the name of first transgenic cow.
- iv) What is the name of the process of copying genetic information of one strand of DNA to RNA ?
- v) Write name of any one autoimmune disease.
- vi) What is the conformities test of typhoid ?
- vii) The number of deaths in the population during the given period. What does it called ?

Choose the correct answers :

- o (i) Which bacteria converts milk into curd ?
- (a) *Saccharomyces cerevisiae* (b) *Lactobacillus*
(c) *Aspergillus niger* (d) *Clostridium butilicum*
- (ii) Which of the following gives nutrition to developing pollen grains is -
- (a) Ectodermis (b) Middle layer
(c) Tapetum (d) Filament

(iii) All the animals depend on plants directly or indirectly for their food is called -

(a) Producers

(b) Consumers

(c) Saprophytes

(d) Decomposers

(iv) Inner mass group of cells which have ability (potency) to produce tissue and organs are -

- (a) Spermatoocytes
- (b) Ectodermal cell
- (c) Stem cells
- (d) Sertoli cell

(v) Who give chromosomal theory of inheritance

- (a) Robert Hook
- (b) Greger John Mendel
- (c) Sutton and Boveri
- (d) M. H. Swaminathan

(vi) Bt poison is formed by -

- (a) *Bacillus thuringiensis* (b) Dhatura
(c) *Bacillus notatum* (d) Opium poppy

(vii) Inactive state of embryo is -

- (a) Dormancy (b) Morulla
(c) Excited state (d) None of these



P.T.O.

7 क्लोनिंग क्या है ?

What is Cloning?

अथवा / OR

क्राई जीन क्या है ?

What is cry gene?

8 एड्स रोग किन कारणों से होता है ? कोई दो कारण लिखिए।
Write down the causes of AIDS. (any two)

अथवा / OR

कैंसर का उपचार किस तरह किया जाता है ?

Write down the treatments of cancer.

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9 हिस्टोन क्या है?
What is Histone?

अथवा / OR

10 पेडीग्री (वंशावली) विश्लेषण क्या है?
What is Pedigree analysis?

अथवा / OR

समयुग्मजी व विषमयुग्मजी में अंतर लिखिए।

Write down differences between homozygous and heteroz

11 त्रिसंलयन से आप क्या समझते हैं?

What do you understand by Triple fusion?

अथवा / OR

विपुंसन किसे कहते हैं?

What is emasculation?