

Time : 3 hrs.]

- Note :** (1) All questions are compulsory.  
 (2) Answers to the question in Section - I and Section - II should be written in TWO separate answer books.  
 (3) Questions from Section - I attempted in the answer book of Section - II and vice-versa will not be assessed / not given any credit.  
 (4) Draw neat and well labelled diagrams wherever necessary.  
 (5) Figures to the right indicate full marks.  
 (6) Answer to every new question must be started on a new page.

## SECTION - I

## BOTANY

**Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :**

[7]

- (i) A cross used to verify the unknown genotype of F<sub>1</sub> hybrid is a \_\_\_\_\_ cross.  
 (a) test (b) back (c) dihybrid (d) monohybrid
- (ii) Appearance of new combinations in F<sub>2</sub> generation in a dihybrid cross proves the law of \_\_\_\_\_.  
 (a) dominance (b) segregation  
 (c) independent assortment (d) purity of gametes
- (iii) A fine powder of recycled modified plastic is known as \_\_\_\_\_.  
 (a) polyblend (b) polythene (c) polyester (d) polymer
- (iv) The partially decomposed organic matter is formed by a process called \_\_\_\_\_.  
 (a) fragmentation (b) humification (c) mineralization (d) leaching
- (v) Transfer of genetic material into a bacterial cell through a viral vector is known as \_\_\_\_\_.  
 (a) transformation (b) transduction (c) transfection (d) translation
- (vi) If the number of chromosomes in an endosperm cell is 27, what will be the chromosome number in the definitive nucleus?  
 (a) 9 (b) 18 (c) 27 (d) 36
- (vii) Lever mechanism of pollination is observed in \_\_\_\_\_.  
 (a) Salvia (b) Jasmine (c) Bougainvillea (d) Butea

**Q. 2.(A) Answer in 'one' sentence each :**

(6) [12]

- (i) A pea plant pure for yellow seed colour is crossed with a pea plant pure for green seed colour. In F<sub>1</sub> generation, all pea plants were with yellow seeds. Which law of Mendel is applicable?
- (ii) Name the enzyme responsible for delay in ripening of tomato fruit.
- (iii) Which are the bacteria responsible for converting organic acids into methane?
- (iv) Name the high yielding semi-dwarf varieties of wheat selected and introduced in India in 1963.
- (v) 'Formation of primary endosperm nucleus is called triple fusion'. Give reason.
- (vi) Mention any 'two' ecological services for the benefit of mankind.

**Q. 2.(B) Sketch and label 'tubular tower fermenter'.**

(2)

# Hsc Biology Chapters 2015

**Kathleen Armour**



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