

**SECTION - I****BOTANY****Q.1.** Explain dihybrid cross with suitable example.

[7]

**OR**

What is bacteriophage? Explain lytic cycle of bacteriophage with suitable diagram.

**Q.2.** Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) Which one of the following is an example of multiple alleles ?  
 (a) Height in pea plant (b) Hair colour in cattle  
 (c) Petal colour in four o'clock plant (d) Wing-size in *Drosophila*
- (ii) The harmful radiations absorbed by the ozone layer are \_\_\_\_\_.  
 (a) X-rays (b) visible light  
 (c) Ultraviolet (UV) rays (d) gamma rays
- (iii) The micro-organism used in the production of acetic acid is \_\_\_\_\_.  
 (a) *Aspergillus niger* (b) *Rhizopus arrhizus*  
 (c) *Neurospora gossypii* (d) *Acetobacter aceti*
- (iv) The adenosine triphosphate (ATP) gain during glycolysis, connecting link and Krebs' cycle respectively are \_\_\_\_\_.  
 (a) 8, 6, 24 (b) 8, 24, 6 (c) 24, 8, 6 (d) 6, 8, 24
- (v) Guano deposits are rich in \_\_\_\_\_.  
 (a) sulphur (b) phosphorus (c) calcium (d) magnesium
- (vi) How many meiotic divisions are required for the formation of 100 seeds ?  
 (a) 25 (b) 50 (c) 100 (d) 125
- (vii) During fertilisation male gametes are carried by pollen tube. This is called \_\_\_\_\_.  
 (a) syngamy (b) siphonogamy (c) mesogamy (d) polygamy

**Q.3. (A)** Answer in 'ONE' sentence each :

(6) [12]

- (i) Define 'microsporogenesis'.  
 (ii) Define 'greenhouse effect'.  
 (iii) Give any 'two' examples of edible mushrooms.  
 (iv) Name the reactions when  $\alpha$ -ketoglutarate is converted to succinyl Co-A in Krebs' cycle.  
 (v) What is amphimixis?  
 (vi) Give the role of heterocyst.

**Q. 3.(B)** Sketch and label ultrastructure of mitochondrion.

(2)

**Q. 3.(C)** Attempt Any TWO of the following :

(4)

- (i) Give advantages of single cell protein (SCP).  
 (ii) Explain the concept of primary productivity.  
 (iii) With the help of suitable diagram define 'bagging' and 'tagging' of flower.  
 (iv) Give advantages of self pollination.

**Q. 4 (A)** Attempt Any TWO of the following :

(6) [9]

- (i) A heterozygous tall plant of pea is crossed with a dwarf plant of pea.

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