

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 α -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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