

Question Paper Code 57/1/1

SECTION – A

(Q. Nos. 1 - 5 are of one mark each)

1. British geneticist R.C. Punnett developed a graphical representation of a genetic cross called "Punnett Square". Mention the possible result this representation predicts of the genetic cross carried.

Ans. (Probability of) all genotypes / genotypic ratio

[1 mark]

2. State the two principal outcomes of the experiments conducted by Louis Pasteur on origin of life.

Ans. Life comes from pre-existing life / biogenesis, dismissed the concept of spontaneous generation = $\frac{1}{2} + \frac{1}{2}$

[1 mark]

3. Name the layer of the atmosphere that is associated with 'good ozone'.

Ans. Stratosphere

[1 mark]

OR

Mention the term used to describe a population interaction between an orchid growing on a forest tree.

Ans. Commensalism

[1 mark]

4. What are 'flocs', formed during secondary treatment of sewage ?

Ans. Masses of bacteria associated with fungal filament (to form mesh like structure)

[1 mark]

OR

Write any two places where methanogens can be found.

Ans. Anaerobic sludge (digester), rumen of cattle / ruminants / stomach of cattle / gut of cattle, marshy area, flooded rice fields, biogas plant (Any two) = $\frac{1}{2} + \frac{1}{2}$

[1 mark]

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