

HSE I – MODEL QUESTION PAPER: SET 5

Maximum: 60 Scores

BIOLOGY

Time: 2 Hours
Cool-off Time: 15 minutes

Maximum: 30 Scores

PART A: Botany

Time: 1 Hour

I. Answer any 3 questions from 1 – 5. Each carries 3 score.

(3 x 3 = 9)

- 1) Fill in the blank.
In Anabazonia, specialized cells called _____ help in nitrogen fixation.
- 2) There are different types of leucoplasts in plant cells. Name the leucoplast that store proteins.
- 3) Observe the relationship between the first two terms and fill in the blank.
Epipetalous stamens – Briarjal _____ – Lily
- 4) Which of the following is not a Brown alga (Phaeophyceae)?
(i) Laminaria (ii) Porphyra (iii) Fucoxanthin (iv) Dictyota
- 5) Choose the correct answer from the bracket.
First stable product of carbon dioxide fixation in C_3 plant is _____ (PGA, OAA, PEP, RUBP)

II. Answer any 9 questions from 6 – 15. Each carries 2 scores.

(9 x 2 = 18)

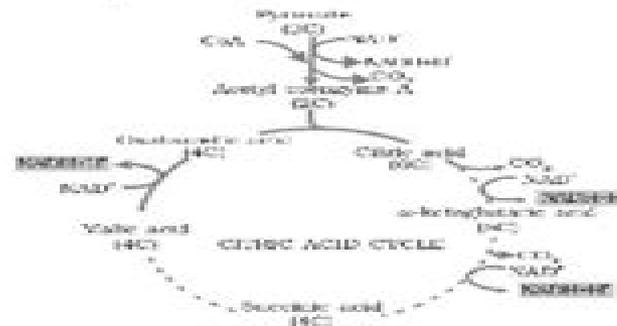
6) Match the following:

A	B
a) Calotropis	i) Vexillary
b) China rose	ii) Valvate
c) Cassia	iii) Twisted
d) Pea	iv) Imbricate

7) Identify the types of vascular bundles A and B. Label P and Q.



- 8) Ribosomes are organelles without a membrane found in all cells. Name another organelle devoid of membrane, seen in animal cells. Write its function.
- 9) Bacteria are classified into different types based on their shape. Write the name and shape of each of them.
- 10) Following figure shows the citric acid cycle.



Identify and explain the steps where $FADH_2$ and GTP are synthesized.

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M Tight



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