

# 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)

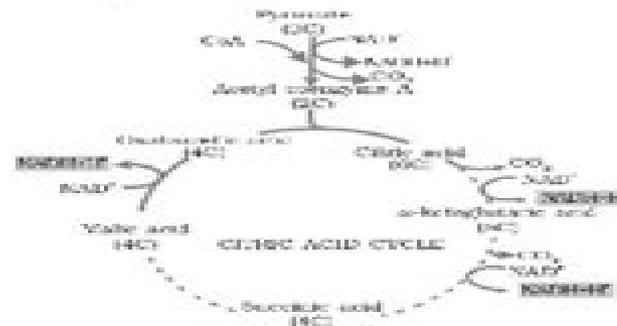
6) Match the following:

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.

# Hse First Year Biology Question Paper

**D Kirk**



## **Hse First Year Biology Question Paper:**

**Forthcoming Books** Rose Army,2000      *Optimization and Applications* Nicholas N. Olenev, Yuri G. Evtushenko, Milojica Jaćimović, Michael Khachay, Vlasta Malkova, 2021-11-04 This book constitutes the refereed proceedings of the 12th International Conference on Optimization and Applications OPTIMA 2021 held in Petrovac Montenegro in September October 2021 The 22 full and 3 short papers presented were carefully reviewed and selected from 63 submissions The papers are organized into the following topical sub headings mathematical programming global optimization discrete and combinatorial optimization optimal control optimization and data analysis and game theory and mathematical economics

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mengenai suatu penghalang sehingga dapat terjadi gema ataupun gaung  
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web klasifikasi gelombang bunyi suatu bunyi dapat didengar oleh manusia karena memiliki 3 hal yaitu adanya sumber bunyi adanya medium rambat bunyi dan frekuensinya yang berada antara 20 hz 20 000 hz audiosonik tidak hanya manusia semua makhluk hidup juga dapat mendengar bunyi