**HCCS Educational System**

(PRE BOARD, 2024)

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| **Time: 1 hour** | **PRACTICAL BIOLOGY-I 08-04-24** | **Total Marks: 15** |

**1. Answer the folloiwng questions.**

**1) Which pigments are shown in A,B,C,and D with colors: (2)**

Ans. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**2) Calculate the Rf value of B by applying formula as values shown in the diagram.**

 **(2)**

Ans. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**3) Why pigment at region D is located lower than A? (2)**

Ans. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**4) Draw a neat and labelled diagram of a chlorella. (2)**

**5) Give 4 major characters that clearly helps in identification of specimen: (2)**

Ans. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**6) Give 2 main distinguishing features of the phylum of the sample diagram: (1)**

Ans. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**7) Identification key for an animal is the presence of unsegmented body, worm like body and pointed ends. (1)**

a. Centipede b. Earthworm c. Ascaris d. Planaria

**8) Identification key for an animal is the presence of vertebral column, feathers and bill on the body. The animal would be: (1)**

a. bird b. Duckbill platypus c. Frog d. Lamprey

**9) Name the test used for the indentification of proteins. (1)**

**Ans :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10) Write the floral formual of *Rosa indica* . (1)**

**Ans :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**