

2022

Botany

[Honours]

(B.Sc. Sixth Semester End Examination-2022)

PAPER- DSE 4T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

A. Answer any five questions-

5x2=10

1. What is qualitative character? Give examples.
2. ~~What is enzyme immobilisation?~~ *what is abbreviation? Give a few examples.*
3. Give two examples each of chromophore and auxochrome.
4. What exclusive rights does a copyright give to its holders?
5. What are sudan dyes? What is it used for?
6. What is the difference between molar and molal solutions?
7. What do you understand proteomics?
8. Name two coagulating fixatives and non-coagulating fixatives each.

B. Answer any four questions-

4x5=20

1. What are ethical principles? Discuss in brief.

→ Name 3 strains used in histological purpose and (2) mention their significance.

2. Briefly describe the process involved in enzyme immobilisation.
3. What is the difference between chromogen and stain? Explain with a proper example.
4. What is literature review and why is it important in scientific research? Differentiate between descriptive and analytical research.
5. Name a model organism for plant science research. What are the criteria for considering a plant model organism?
6. How will you prepare 1 N HCl in 100 ml water? (commercially available HCl is 36 %; specific gravity of HCl is 1.17; molecular weight of HCl is 36.5)

C. Answer any one question.

1x10=10

1. Write down the importance of references. Name few major reference formats. Define academic misconduct and plagiarism. What are the things that plagiarism includes? (2.5+2.5+3+2)
2. Classify the types of stains based on origin, purpose of use, staining activity and charge. Write down four properties of a good power point slide. **6+4**