

Set of assignments for Natural dye course:

Set-1

1. How old is the natural dyeing practices in India?
2. What causes dyes to appear colored?
3. Give the classification of natural dyes according to their color?
4. Explain what are Chromophore and Auxochrome taking a particular example.
5. Why are Azo dyes banned globally?
6. What marked the advent of Synthetic dyes?
7. What are the appropriate conditions needed for the oxidation of synthetic dyes?
8. What are the various chromatographic and spectroscopic methods used in the identification of natural dyes?
9. What are the innovative methods of extraction for natural dyes?
10. What are the advantages of using natural dyes?
11. Ayurved uses a large number of natural dyes in its formulation, give a few examples to prove this statement.
12. How can metal mordant be replaced in natural dyeing and with what other treatment can similar results of dyeing be achieved?
13. How does a natural dye qualify to be a good dye source?
14. How does one prepare the RFD (Ready for Dyeing) textile material for natural dyeing?
15. How are banned amines analyzed in dyed fabrics?

Set-2

1. Which natural dyes were used in ancient times, name them
2. How will you describe dyes and their color in scientific terms?
3. What are the different natural dyes in terms of their structure?
4. Give an example of Indigoid dye with its structure.
5. What are the usual symptoms of chemical sensitivity of dyes?
6. Why were natural dyes pushed out of market when synthetic dyes captured the market?
7. How does the oxidation of a number of dyes in predominantly aqueous systems by Tetra-phenylporphyrinato manganese(III) imidazole take place?

8. What are the various chromatographic and spectroscopic methods used in the identification of natural dyes?
9. Which of the two solvent is more appropriate for natural dye extraction—water or methanol?
10. What are the problems encountered in the use of vegetable/natural dyes?
11. How can you establish the medicinal properties of natural dyes?
12. What is the role of mordanting in natural dyes?
13. What is the role of agitation during dyeing while using natural dyes?
14. What is meant by meta-mordanting?
15. What are the parameters for establishing ecofriendliness of natural dyes?