

School of Basic Sciences

Department of Basic Sciences

Mid Term Examination

Exam Date: 26 Sep 2023

Time : 90 Minutes

Marks : 50

Sem V - C2UE501T - Plant Systematics

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) What do you understand by Natural systems? Give examples. K2 (2)
- 2) Relate natural systems to cladistics. K1 (3)
- 3) Explain about three different locations within the plant cell from where systematists use molecular data. K2 (4)
- 4) Enumerate various types of homology. Write a brief note on monophyly, paraphyly and polyphyly. K2 (6)
- 5) Give a comparative account on primary and secondary key characters. K3 (6)
- 6) Describe the principle of priority. K3 (9)
- 7) Give a comparative account on Tautonym and Para-tautonym. K4 (8)

- 8) Write short notes on the contribution of - (a) C.E.Bessey (b) Carolus Linnaeus as taxonomist (c) Theophrastus (d) Bauhin (e) Adanson (f) De Candolle. K4 (12)

OR

What is virtual herbarium? Discuss in details about the goals and data contents of virtual herbarium. What are the herbarium based databases? Mention the importance of virtual herbarium. K4 (12)