

## LIST OF TABLES

Table		Page
1.	Pattern of changes in certain functional parameters during different developmental phases of <u>C. ipecacuanha</u>	252
2.	Pattern of changes in certain biochemical parameters during different developmental phases of <u>C. ipecacuanha</u>	253
3.	Salient features of inflorescence and fruit of <u>C. ipecacuanha</u>	254
4.	Androecium features of <u>C. ipecacuanha</u>	255
5.	Gynoecium features of <u>C. ipecacuanha</u>	255
6.	Stem measurement of <u>C. ipecacuanha</u> in relation to age and altitude	256
7.	Leaf measurement of <u>C. ipecacuanha</u> in relation to age and altitude	256
8.	Root measurement of <u>C. ipecacuanha</u> in relation to age and altitude	257
9.	Annulation character and TA contents of <u>C. ipecacuanha</u> roots in relation to age and altitude	258
10.	Microscopic features of stem tissue system of <u>C. ipecacuanha</u>	259
11.	Microscopic feature of laminar tissue system of <u>C. ipecacuanha</u>	260
12.	Microscopic features of root system of <u>C. ipecacuanha</u>	260
13.	Variations in stomatal frequency, stomatal index and stomatal area of <u>C. ipecacuanha</u> in relation to age and altitude	261
14.	Variations in palisade ratio, vein-islet number and vein termination number of <u>C. ipecacuanha</u> in relation to age and altitude	262
15.	Variation in trichome characters of <u>C. ipecacuanha</u> in relation to age and altitude	263

Table	Page
16. Pollen grain characteristics of <u>C. ipecacuanha</u> in relation to altitude	264
17. Alkaloid reaction in different tissue components of mature <u>C. ipecacuanha</u> roots in relation to altitude	265
18. Alkaloid reaction in different tissue components of mature <u>C. ipecacuanha</u> stem in relation to altitude	265
19. Alkaloid reaction in different tissue components of mature <u>C. ipecacuanha</u> leaves in relation to altitude	266
20. TA and emetine contents of powder root drug of <u>C. ipecacuanha</u> in relation to altitude	266
21. Microscopical characteristics of powder root of <u>C. ipecacuanha</u> in relation to altitude	267
22. Effect of some growth regulators on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u>	268
23. Effect of some growth regulators on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u>	268
24. Effect of 50°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u>	269
25. Effect of 50°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u>	269
26. Effect of 50°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with GA <sub>3</sub>	270
27. Effect of 50°C temperature on the pattern of changes in certain in biochemical parameters of <u>C. ipecacuanha</u> treated with GA <sub>3</sub>	271
28. Effect of 50°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with KN	272

Table		Page
29.	Effect of 50°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with KN	273
30.	Effect of 50°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with NAA	274
31.	Effect of 50°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with NAA	275
32.	Effect of 50°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with MH	276
33.	Effect of 50°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with MH	277
34.	Effect of 50°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with ABA	278
35.	Effect of 50°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with ABA	279
36.	Effect of 50°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with KSCN	280.
37.	Effect of 50°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with KSCN	281
38.	Effect of 5°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u>	282
39.	Effect of 5°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u>	282
40.	Effect of 5°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with GA <sub>3</sub>	283

Table	Page
41. Effect of 5°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with GA <sub>3</sub>	284
42. Effect of 5°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with KN	285
43. Effect of 5°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with KN	286
44. Effect of 5°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with NAA	287
45. Effect of 5°C temperature on the pattern of changes in certain biochemical parameter of <u>C. ipecacuanha</u> treated with NAA	288
46. Effect of 5°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with MH	289
47. Effect of 5°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with MH	290
48. Effect of 5°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with ABA	291
49. Effect of 5°C temperature on the pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with ABA	292
50. Effect of 5°C temperature on the pattern of changes in certain functional parameters of <u>C. ipecacuanha</u> treated with KSCN	293
51. Effect of 5°C temperature on pattern of changes in certain biochemical parameters of <u>C. ipecacuanha</u> treated with KSCN	294
52. Pattern of P <sup>32</sup> uptake and incorporation in <u>C. ipecacuanha</u> seedlings	295
53. Effect of different growth regulators on pattern of P <sup>32</sup> uptake by <u>C. ipecacuanha</u> seedlings	295

Table	Page
54. Effect of different growth regulators on pattern of $P^{32}$ incorporation in different parts of <u>C. ipecacuanha</u> seedlings	296
55. Effect of high temperature (50°C) on pattern of $P^{32}$ uptake by different parts of <u>C. ipecacuanha</u> seedlings	296
56. Effect of high temperature (50°C) on pattern of $P^{32}$ incorporation by different parts of <u>C. ipecacuanha</u> seedlings	297
57. Effect of pre-treatments of growth regulators (100 mg/l) followed by high temperature treatment (50°C - 10 min) on pattern of $P^{32}$ uptake by different parts of <u>C. ipecacuanha</u> seedlings	297
58. Effect of pre-treatments of different growth regulators (100 mg/l) followed by high temperature treatment (50°C - 30 min) on pattern of $P^{32}$ uptake by different parts of <u>C. ipecacuanha</u> seedlings	298
59. Effect of pre-treatments of different growth regulators (100 mg/l) followed by high temperature treatment (50°C - 10 min) on pattern of $P^{32}$ incorporation in different parts of <u>C. ipecacuanha</u>	298
60. Effect of pre-treatments of different growth regulators (100 mg/l) followed by high temperature treatment (50°C - 30 min) on pattern of $P^{32}$ incorporation in different parts of <u>C. ipecacuanha</u> seedlings	299
61. Effect of low temperature treatment (5°C) on pattern of $P^{32}$ uptake by different part of <u>C. ipecacuanha</u> seedlings	299
62. Effect of low temperature treatment (5°C) on pattern of $P^{32}$ incorporation in different parts of <u>C. ipecacuanha</u> seedlings	299
63. Effect of pre-treatments of different growth regulators (100 mg/l) followed by low temperature treatment (5°C - 10 min) on pattern of $P^{32}$ uptake by different parts of <u>C. ipecacuanha</u> seedlings	300
64. Effect of pre-treatments of different growth regulators (100 mg/l) followed by low temperature (5°C-30 min) on pattern of $P^{32}$ uptake by different parts of <u>C. ipecacuanha</u> seedlings	300

Table	Page
65. Effect of pre-treatments of different growth regulators (100 mg/l) followed by low temperature (5°C - 10 min) on pattern of P <sup>32</sup> incorporation in different Parts of <u>C. ipecacuanha</u> seedlings	301
66. Effect of pre-treatments of different growth regulators (100 mg/l) followed by low temperature (5°C - 30 min) on pattern of P <sup>32</sup> incorporation in different parts of <u>C. ipecacuanha</u> seedlings	301