

CODE: **196408**
NOVEMBER 2020

TIME: 3 Hrs
MAX. MARKS: 50

PART A

(10 x 2=20)

Answer any **TEN** questions.

Define / Explain the following:

1. Sclereids
2. Quiescent centre
3. Tyloses
4. Sieve-tubes
5. Cystolith
6. Endothecium
7. Sporopollenin
8. Archosporium
9. Nawaschin phenomenon
10. Mention any two fixatives
11. Double staining
12. Microtome

PART B

(2 x 5=10)

Answer any **TWO** questions.

13. Write about simple tissues.
14. Explain Histogen theory.
15. Differentiate heart wood from sap wood.
16. Describe the anatomy of dicot leaf.
17. Describe the internal structure of a mature anther.
18. Describe the structure of *Polygonum* type of embryo sac.
19. Write about polyembryony.
20. Describe the methods of staining.

PART C

(2 x 10=20)

Answer any **TWO** questions.

21. Describe anomalous secondary thickening in *Boerhavia*.
22. Give an account of complex tissues.
23. Write an essay on the development of male gametophyte.
24. Compare the development of dicot and monocot embryos
25. Explain in detail about permanent slide preparation.