

B.Sc. Semester - 4 (NEP-2020) Examination**March/April-2026****BOT: Anatomy of Angiosperms (Major-8)****Time: 2:00 Hours****Marks: 50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1(A) Describe in detail :(Any one) (08)
- (1) Describe Types of vascular bundles.
 - (2) Describe the xylem tissue in detail.
- Que.1(B) Write short note:(Any one) (04)
- (1) Give the functions of Sclerenchyma.
 - (2) Give the name of tissue found in herbaceous stems and leaves of dicotyledons.
Also give its functions.
- Que.2(A) Describe in detail :(Any one) (09)
- (1) Describe the different types of stomatal structure and its functions
 - (2) Discuss Laticifers tissues.
- Que.2(B) Write short note:(Any one) (04)
- (1) What is Ergastic substances or cell inclusions
 - (2) Aleurone crystal of Maize
- Que.3(A) Describe in detail :(Any one) (08)
- (1) What is epidermal outgrowth? Discuss it with an example.
 - (2) What is glandular tissue system? Describe “Glandular hairs” and “Nectaries”
- Que.3(B) Write short note:(Any one) (04)
- (1) What is cuticle layer? Give its role and importance.
 - (2) Describe Korper – Kappe theory for organization of root apex.
- Que.4(A) Describe in detail :(Any one) (09)
- (1) Describe Anomalous Secondary growth in Tinospora aerial root.
 - (2) Define secondary growth with its types.
- Que.4(B) Write short note:(Any one) (04)
- (1) Differentiate between Vascular and Cork cambium.
 - (2) Define and explain – Heart wood and sap wood.
