

**B.sc. SEM II  
BOT-A  
CC 3 (PLANT ANATOMY)  
Theory  
2020**

**Time 2 hours**

**Section A**

**FM 25**

Write short notes on: -

**5X5**

- a) Primary structure of cell wall
- b) Plectostele
- c) Anisocytic stomata
- d) Difference between protoxylem and metaxylem
- e) Difference between monocot and dicot stem

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Practical  
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**Section B**

**FM 15**

Write the following: -

1X15

- a) What is plasmodesmata?
- b) What is middle lamella?
- c) What is microfibril?
- d) What is callose?
- e) What is trabeculae?
- f) What is torus?
- g) What is paracyclic stomata?
- h) What is stomatal complex?
- i) What is Casperian strip?
- j) What is leptocentric siphonostele?
- k) What is passage cell?
- l) What is ground tissue?
- m) What is epiblema?
- n) What is half bordered pit?
- o) What is the main chemical component of plant cell wall?

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Internal Examination  
2020**

**Section C**

**FM 10**

Answer the following questions:

1X10

- a) What is double staining?
- b) What is DPX?
- c) Why alcohol is used in anatomical staining?
- d) What are sunken stomata?
- e) Mention two hydrophytic characters of Nymphaea petiole.
- f) What is hilum?
- g) Write two identifying characters of laticiferous duct
- h) Mention two identifying characters of aleurone grains.
- i) How can you identify acicular raphides?
- j) What is cystolith?