

*SH-III/Botany/301C-5(T)/19***B.Sc. Semester III (Honours) Examination, 2018-19****BOTANY****Course ID : 31311****Course Code : SHBOT-301C-5(T)****Course Title: Morphology and Anatomy of Angiosperms****Time: 1 Hour 15 Minutes****Full Marks: 25***The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer *any five* of the following: 1×5=5
- (a) What is phyllode?
  - (b) What is gynostemium?
  - (c) Name the type of fruits found in the following plants:
    - (i) *Cucurbita maxima* (Red pumpkin)
    - (ii) *Lycopersicon esculentum* (Tomato)
  - (d) What is Bars of Sanio?
  - (e) What is plasmodesmata?
  - (f) What do you mean by quiescent centre?
  - (g) What is heart wood?
  - (h) Write the function of P-protein.
2. Answer *any two* of the following: 5×2=10
- (a) Describe different types of aestivation with proper diagram and examples of each type.
  - (b) What is phyllotaxy? Describe different types of phyllotaxy with sketches and examples. 2+3=5
  - (c) Describe different type of mechanical tissues found in plants.
  - (d) What is periderm? How does it develop in plants? 2+3=5
3. Answer *any one* of the following: 10×1=10
- (a) What is shoot apex? Describe with sketches different theories regarding the organisation of shoot apex of angiospermic plants. 2+8=10
  - (b) What is secondary growth? Describe with suitable sketches the secondary growth in dicot stem. 2+2+6=10
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