

**B.Sc. 3rd Semester (Honours) Examination, 2019-20****BOTANY****Course ID : 31311****Course Code : SHBOT-301C-5**

Course Title: Morphology and Anatomy of Angiosperms

**Time: 1 Hour 15 Minutes****Full Marks: 25***The figures in the right hand side 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 do you mean by Schimpes-Brown Series?
  - (b) What is a drupe?
  - (c) What is stylopdium?
  - (d) What are statoliths?
  - (e) Name a monocotyledonous plant where secondary growth is found.
  - (f) What is the main difference between P-type and S-type plastids?
  - (g) What is primordial meristem?
  - (i) What is plastochyon?
2. Answer *any two* of the following: 5×2=10
- (a) Describe in brief with diagram the phylogenetic relationship of different types of placentation. 3+2=5
  - (b) Describe different special types of condensed cymose inflorescence with examples. 5
  - (c) Compare the internal structures of dicot stem with that of monocot stem. 5
  - (d) What are ergastic substances? Describe in brief the different types of ergastic materials of plants. 2+3=5
3. Answer *any one* of the following: 10×1=10
- (a) What is Cambium? How does it originate? Give an account of its activity in the stem of monocotyledonous plant with sketches. 2+2+6=10
  - (b) What are Xerophytes? Describe the various anatomical modification in the Xerophytes. Distinguish between sap wood and heart wood. 2+6+2=10
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