

**M.Sc. 2nd Semester Examination, 2021**

**SUBJECT: BOTANY**

**Course Code: BOT/204-C(T)**

**Course ID: 21354**

**Course Title: Taxonomy of Angiosperms**

**Time: 2Hours**

**Full Marks: 30**

**1. Answer any four of the following: 1x4=4**

- (a) What is *nom.nov.*?
- (b) What do you mean by apomorphic character?
- (c) What is a clade?
- (d) Name one unisexual species of Ranunculaceae.
- (e) What is conspectus?
- (f) What is a phytochorion?
- (g) What are vicariads?
- (h) Write the full form of IBC and IAPT.

**2. Answer any two of the following: 5x2=10**

- (a) Name and discuss the conventional categories of biosystematics. 5
- (b) Write down the importance of BSI in taxonomic studies. 5
- (c) Distinguish between phenetics and cladistics. Describe the different steps involved in numerical taxonomy. 2+3=5
- (d) Define endemism. Write the different types of endemic with examples. 2+3=5

**3. Answer any two of the following: 8x2=16**

(a) What do you mean by APG III classification? Give an outline of APG III(2009) Classification of Angiosperm. 2+6=8

(b) Why is Helobieae considered as an unnatural taxon? Mention the constituent families of this taxon. State the evolutionary trend of this taxon. 2+2+4=8

(c) Characterise Glumiflorae. Name the included families of this taxon. Give a critical review OnGlumiflorae. 3+1+4=8  
3+1+4=8

(d) Briefly compare Ranales with Amentiferae with a special note on the evolutionary status.4+4=8