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## GIET UNIVERSITY, GUNUPUR – 765022

M. Sc (Fourth Semester – Regular) Examinations, May – 2021

### LSPC 401 – Plant Anatomy, Evolution & Embryology

(Life Science – Plant Science)

Time: 2 hrs

Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

#### PART – A

(2 x 10 = 20)

Q.1. Answer all the questions

- a. Eustele
- b. Annual ring
- c. Ecological Isolation
- d. Allopatric speciation
- e. Tapetum
- f. Toptipotency
- g. Bud dormancy
- h. Abscissic Acid
- i. Genetic drift
- j. Apospory

#### PART – B

(6 x 5 = 30 Marks)

Answer ANY FIVE questions

Marks

2. Describe details of anomalous secondary growth in dicot stem. (6)
3. Describe any three types of mechanical tissue in plants and their distinguishing features. (6)
4. Describe details on concept of organic evolution with suitable examples. (6)
5. Describe details on geological eras with suitable examples. (6)
6. Describe the development of microsporangium and process of microsporogenesis. (6)
7. Describe the various type of endosperm in angiosperms and explain the functions of endosperm. (6)
8. What is senescence? Write s brief account of senescence met in plants. (6)
9. What are auxins? Give their mechanism mode of action in plants and explain their importance. (6)

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