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**GIET UNIVERSITY, GUNUPUR – 765022**  
M. Sc (Third Semester) Examinations, December' 2020  
**PSPC 301 – Plant Morphology Structure & Reproduction**  
**(Plant Science)**

Time: 2hrs

Maximum: 50Marks

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

Q.1. Answer **ALL** the questions

(2 x 10 = 20)

- a. Explain the terms Uniaxial & Multiaxial in algae.
- b. What is the major component of fungal cell wall which makes it different from algal cell wall?
- c. Name the antheridia and archegonia bearing branches in *Marchantia*.
- d. Define heterospory.
- e. What is impression?
- f. What type of wood is found in *Cycas*?
- g. Mention the type of inflorescence found in Umbelliferae.
- h. What is the basis of Arthur Cronquist system of classification?
- i. What is Geological time scale?
- j. Define stele

**PART-B (6 x 5 = 30Marks)**

Answer **ANY FIVE** questions

Marks

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| 2. Describe the range of thallus structure found in algae  | (6) |
| 3. Give an account on the sexual reproduction in fungi.  | (6) |
| 4. Discuss on the progressive sterilization of sporogenous tissue in bryophytes.   | (6) |
| 5. Explain the different types of stele found in Pteridophytes.  | (6) |
| 6. Give an outline classification of Gymnosperms.  | (6) |
| 7. Summarize the angiospermic features in Gnetales   | (6) |
| 8. Discuss the range of floral structure and phylogeny of Ranales.   | (6) |
| 9. Give hierarchy of units of classification, botanists follow while classifying plants and mention different 'suffixes' used for the units according to ICBN. | (6) |

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