

M.Sc.(Botany) CBCS Pattern Semester-IV
PSCBOTT16.5 - Paper-XVI : Basic Botany-II

P. Pages : 1

Time : Three Hours



GUG/W/23/11366

Max. Marks : 80

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- Notes : 1. All questions are compulsory & carry equal marks.
2. Draw diagrams wherever necessary.

1. What is central dogma of protein synthesis? Describe the process of protein synthesis in eukaryotes and their cellular translocation. **16**

OR

Write on:

- a) Diffusion osmosis and Imbibition. **8**
b) Describe aerobic respiration with the help of Glycolysis & Krebs cycle? **8**

2. What is xerosere? Give an account of succession starting on bare rock & terminating into climax community. **16**

OR

Write on:

- a) Evolution of plant kingdom. **8**
b) Darwinism & Lamarckism. **8**

3. Give an account of spices and condiments yielding plants. Add a note on its economic importance. **16**

OR

Write on:

- a) Gum and resin yielding plants. **8**
b) Economic importance of Narcotics and Beverages. **8**

4. What is paleobotany? Describe the evolution of life through Geological time scale. **16**

OR

Write on:

- a) Types of fossils. **8**
b) Process of fossilization & economic importance of fossils. **8**

5. Write short notes on:
- a) Movements in plants. **4**
b) Air pollution. **4**
c) Food & fodder yielding plants. **4**
d) Mesozoic era. **4**
