

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

B.Sc.PBPBT - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - IV

20UPBCT4007 - Gymnosperms, Paleobotany and Evolution

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. List the general characteristics of Gymnosperm.
2. Write a short note on fossilization.
3. Explain the external morphology of *Williamsonia seawardiana*.
4. Describe "variation" on reference to evolution.
5. Describe the structure of *Cycas* rachis with a neat diagram.
6. Describe on Petrification.
7. Explain the importance of Paleobotany.
8. Discuss chemosynthetic theory on the origin of life.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Describe the economic importance of Gymnosperm.
10. Explain the structure of male and female cone - *Gnetum*,
11. Write about the fossil and its kinds.
12. Outline the geological time scale.
13. Write a note on the following: mutation,
(i) Recombination (ii) Adaptation (iii) Selection
