

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 APRIL - 2024

SEMESTER -

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. Describe the economic importance of gymnosperms.
2. Prepare a note on ideal conditions used for fossilization.
3. Prepare brief notes on *Pentoxylon*.
4. Explain the chemosynthetic theory on origin of life.
5. Describe the Male gametophyte of *Cycas*.
6. Prepare brief note on pseudofossils.
7. Explain the life history of Dr. Birbal Sahani.
8. Explain the mutation in Evolution.

Section C

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

9. Classify gymnosperms according to Pilger and Melchior.
10. Relate the female gametophyte of *Gnetum* with *Cycas*.
11. Distinguish between the various kinds of fossils.
12. Prepare an essay showing the various features of *Medullosa* and *Williamsinia sewardiana*.
13. Compare the various sources of variation.
