(i)	Printed Pag	es:3	. Roll No				
(ii)	Questions	:9	Sub. Code :	0	2	5	0
	fm 1.		Exam. Code :	0	0	3	is.

B.A./B.Sc. (General) 3rd Semester

1125

BOTANY

Paper : A : Diversity of Seed Plants and their Systematics–ITime Allowed : Three Hours][Maximum Marks : 36]

- Note :- (i) Attempt five questions in all, selecting one question from each Unit.
 - (ii) Question No. I is compulsory.
 - (iii) Draw diagrams where necessary.

I. (A) Multiple choice questions. Pick up correct choice.

- (i) Winged Pollen grains are present in :
 - (a) Cycas and an of bonusido at
 - (b) Pinus
 - (c) Ephedra
 - (d) Gnetum
 - (ii) How many concentric rings of vascular cambium are formed in Cycas Pectinata ?
 - (a) 10 period a second second
- (b) 12 (b) 12 (b) (b)
 - (c) 14
- Inverted oncer like vasce 16 (d) and (d) and provide

In Ephedra, both male and female strobili are : (iii)

- Simple (a)
- (b) Compound
- (c) Open
- (d) Absent

Who is known as "Father of Indian Paleobotany"? (iv)

- Williamson (a)
- (b) Potonie
- Binney (c)
- Birbal Sahni (d)
- Vessels are present in which gymnosperm? (v)
 - Gnetum (a)
 - Cycas (b)
 - Pinus (c)
- (d) Ephedra
 - Strongest coniferous wood used for railway sleepers (vi) is obtained from :
 - (a) Pinus
 - (b) Cedrus
 - (c) Ginkgo
- 6×1=6 di Taxus.
 - Fill in the blanks : **(B)**
 - Cycas yields a starch called (i)
 - Pollen bearing organ of Lyginopteris was given the (ii) name
 - Inverted omega like vascular bundles are present in (iii)

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(iv)	Leaves of Pinus are	Mit damage merimenter
(v)	'Jointed Fir' is the commo	n name of
(vi)	Neck canal cells are	in gymnosperms.
	is a lit for 16 coursel in	6×1=6

UNIT-I

11.	Differentiate between gymnosperms and angiosperms.	6
п.	Differentiate between gymnosperms and angiosperms.	

III. Differentiate between manoxylic and pycnoxylic wood. 6

UNIT-II

- IV. What are fossils? Explain various types.
- V. Describe external morphology and reproductive organs of Williamsonia.

UNIT-III

VI. Describe male cone of Cycas.

VII. Describe structure (internal) of Cycas leaflet with diagram (Cellular).

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UNIT-IV

VIII. Describe external morphology of Pinus.

IX. Describe female cone of Ephedra.

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