3 SEM TDC BOT M 1

(b) Fill in the blanks:

(ii) Trabecul **Q I O 2**nd in the stem of

(iii) In Character che onia,

always absent.

YNATOB

2. Write short now (rojeM) lowing:

(a) Rhizophore of Selag rella

(b) Elaters of Selag rella

2

(Pteridophytes, Gymnosperms and Paleobotany)

Full Marks: 48

Discuss to norphological nature of

Time: 2 hours

The figures in the margin indicate full marks at basel suffer the questions largellib

- 1. (a) Choose the correct answer: 1×3=3

 (i) Common name of Equisetum is spikemoss/clubmoss/horsetail.
 - (ii) Ovulate strobili of Ginkgo are developed on long/spur shoots.
 - Bennettitales were flourished very luxuriantly in Jurassic/Cretaceous/Triassic period.

20P/150

2+5=7

7

(Turn Over)

3. (a)

	(b)	Fill in the blanks: 1×2=	the blanks: 1×2=2	
		(i) Trabeculae are found in the stem of		
		(ii) In Cycas archegonia, cell is always absent.		
2.	Writ	te short notes on the following:		
	(a)	Rhizophore of Selaginella	2	
	(b)	Elaters of Equisetum	2	
	(c)	Coralloid roots of Cycas	3	
	(d)	Sporangiophore of Sphenophyllum	2	
3.	(a)	Discuss the morphological nature of synangium of <i>Psilotum</i> . Or	7	
		With suitable sketches, describe		
		different types of prothallus found in		
		Lycopodium. 3+4	=7	
	(b)	What do you mean by heterospory? How heterospory in pteridophytes can be correlated to the origin of seed habit?		
		2+5	j=7	
		Or		
		"Siphonosteles are modified forms of protostele." With suitable sketches, justify the statement.	7	

1×2=2

- 4. Write explanatory notes on any two of the following (Give sketches where necessary):
 5½×2=11
 - (a) Economic importance of Gymnosperms
 - (b) Polyembryony of Pinus
 - (c) Comparison of L.S. of ovules of Cycas and Gnetum
 - (d) Male reproductive structure of Ginkgo
- 5. Explain what you know about the process of fossilization. Why is paleobotanical study important for us?
 7+2=9

Or

Write short notes on any three of the following: 3×3=9

- (a) Bennettitales
- (b) Female strobilus of Cordaites
- (c) L.S. of Rhynia capsule
- (d) Form genera
