

Reg. No. :		
Name :	******	
CORE CO	ree (CBCSS – Sup./Imp.) Ex (2014 – '18 Admissions) URSE IN BOTANY/PLANT S y, Pteridology, Gymnosper	SCIENCE
Time: 3 Hours		Max. Marks: 40
Answer all .	SECTION - A	Aut (Aut. A)
Resurrection plants are	granologica (alicination) proportion of the second of the	or Training the significance of
2. Transfusion tissues areA) Gnetum leavesC) Cycas leaves	n ealote B) Pinus le	aves I would be always and a solution of these stands and males are always.
3. Columella tissues are sA) RicciaC) Antoceros	een in Q – ИОГГОЗА B) Funaria to lacregate engate D) Both Fu	
4. Lepidocarpon is		ef. Explicie the life sydle of
Answer any eight.	SECTION - B	(8×2=16)
	I reproduction present in <i>Riccia</i> .	` ,
6. What is prothallus? Ex	plain.	
7. Explain the structure of	f Rhynia.	
8. What are coal balls?		

K21U 0862



- 9. Write objectives of Palaeobotanical studies.
- 10. Write a note on ovule of Cycas.
- 11. Explain the internal structure of mature antheridium of Funaria.
- 12. Enumerate Angiosperm characters Gnetum.
- 13. Write economic importance of Gymnosperms.
- 14. Write a note on Anthoceros mature spore.
- 15. Explain the dehiscence of Pteris sporangium.
- 16. Write the ecological importance of bryophytes.

SECTION - C

Answer any four.

 $(4 \times 3 = 1)$

- 17. Explain the various types of asexual reproduction in Funaria.
- 18. Explain the structure of *Marsilea* sporocarp.
- 19. What are the applied aspects of Palaeobotany?
- 20. Write a critical note on Lyginopteris stem.
- 21. Give an account of different types of steles in Pteridophytes.
- 22. Explain the anatomy of *Pinus* needle.

SECTION - D of need are soussit affertule.

Answer any one.

(1×8=

- 23. Write an essay about sporophyteand spore dispersal of Anthoceros.
- 24. Explain the life cycle of Equisetum.
- 25. With the help of diagram explain the sexual reproduction in Pinus.

P.T.O.



				K	22U 1541
Reg. No. :	•••••				100
Name:					
IV Semester B.Sc. De	egree CBCSS Examin (2019 Adı E COURSE IN	(OBE) I lation, missio I BOTA	Regular/Sup _l April 2022 n Onwards) NY/PLANT	plementary/l	mprovement
Time : 3 Hours				Ma	ax. Marks : 40
Instruction : D	Praw diagrams				
		PART -	· A		
Objective type question	ons. Answer all				(4×1=4)
In Pteridophytes, that a) Gametophyte	ne dominant de	neration	n is	i simu savos en d) Triplo	
2. "Club moss", belong	gs to	e dringer	287800	d) Pterid	m pamoseu a
Which of the following a) Trachieds	ing is absent in b) Parenchyr			sperms ? d) Vesse	
4. Endosperm in Gym	nosperm is	J-11			
a) Haploid	b) Diploid	c)	Triploid	d) None	
	<u>L</u>	PART -	B politout	essy on rep. "	
Short Essay questions					$(8\times2=16)$
5. Enumerate the salie	ent features of	Pterido	hites		
6. Draw and label the	internal structu	re of M	arsilea.	Control (a sign	
7. Peristome and its si	gnificance.				
8. Short notes on apop	ohysis.				
 Write an account or Pteridophytes. 	the evolutiona	ary relat	ionships of <i>Bi</i>	<i>yophytes</i> and	P.T.O.

K22U 1541

- 10. Write short notes on leaf types of Selaginella.
- 11. Write an account on the vegetative reproduction in Cycas.
- 12. Distinguish between apospory and apogamy.
- 13. Explain the types of protostele in Pteridophytes.
- 14. Enumerate the evolutionary aspects of Gymnosperms.
- 15. Write a note on Indian contributions of Gymnosperm study.
- 16. Explain the collection procedures using for spores of Pteridophytes.

PART - C

Essay questions. Answer any four.

(4×3=

- 17. Explain the male and female cone of Gnetum.
- 18. Describe the economic importance of Gymnosperms.
- 19. Describe the vegetative characters of Equisetum.
- 20. Explain the structure of strobilus of Selaginella.
- 21. Explain the spore dispersal mechanism of Pteris.
- 22. Briefly explain the anatomy of Cycas young stem.

PART - D

Long Essay questions. Answer any one.

(1×8

- 23. Write an essay on reproduction in Pinus.
- 24. Discuss about the classification of Pteridophytes by Reimer.
- 25. Explain the life cycle of Marsilea.