Name			Printed Pages:01		
Student Admn. No.:					
School of Biological and Life Sciences Summer TermExamination – July - August 2024 [Programme:ZBC] [Semester:III)[Batch:Summer 2024]					
Course Title: Archegoniates & Plant Architecture			Max Marks: 100 Time:3 Hrs.		
Course Code: B040201T					
Instructions: 1. All questions are compulsory.					
2. Assume missing data suitably, if any.					
			K Level	COs	Marks
SECTION-A (15 Marks) 5 Marks each					
1.	Describe the structure and function of archegonia in bryophytes. How does t structure facilitate the reproductive process in these plants?	he	K2	CO1	5
2.	Explain the evolutionary significance of the transition of plants from aquatic terrestrial habitats. What key adaptations made this possible?	to	K2	CO2	5
3.	Discuss the key morphological features used to identify pteridophytes. How features aid in their classification?	do these	K2	CO3	5
SECTION-B(40 Marks) 10 Marks each					
4.	Compare and contrast the reproductive strategies of bryophytes and gymnos Highlight the differences in their reproductive structures and processes.	perms.	K3	CO1	10
5.	Analyze the role of vascular tissues in the evolution and diversification of lar plants. How did the development of xylem and phloem contribute to their su land?		К3	CO2	10
6.	Evaluate the importance of plant architecture in the adaptation of land plants do different growth forms and structures contribute to the survival and repro- of terrestrial plants?		K4	CO4	10
7.	Discuss the impact of environmental factors on the external and internal stru flowering plants. How do these factors influence plant morphology and anato		K5	CO5	10
SECTION-C (45 Marks) 15 Marks each					
8.	Critically assess the significance of secondary growth in plant architecture. H does secondary growth contribute to the overall structure and longevity of w plants?		K5	CO1	15
9.	Design an experiment to study the developmental changes in pteridophytes u different environmental conditions. Explain the methodology and expected outcomes.	inder	K6	CO3	15
10	Create a detailed classification key for a given set of gymnosperm species. In the morphological and anatomical characteristics used in the key and explain they aid in the identification process.		K6	CO5	15