SHRI S.H. KELKAR COLLEGE OF ARTS, COMMERCE & SCIENCE, DEVGAD SYBSC SEM-III EXAMINATION, OCT 2023 PAPER I - PLANT DIVERSITY II (USBO301) TIME -3HRs TOTAL MARKS-100



- (2) Figures to the right indicate full marks.
- (3) Draw neat and labeled diagrams wherever necessary.

Q.1 (A) Fill in the blanks.	(10 Monto)
1. Areca catechu (Supari) is a member of family	(10 Marks)
a) Mimosae h) Palmae	c\ Panilionaceae
a) Mimosae b) Palmae 2. Helianthus annus (Sunflower) belongs to family	c) Papilionaceae
a) Asteraceae b) Palmae 3. In angiosperms the ovules are enclosed in	c) Caesalpinae
3. In angiosperms the ovules are enclosed in	o, occarping
at Antitler in civary	c) Corolla
4. The genus Anthoceros is included under	
a) Musci b) Fuhrva	c) Ascomucatos
5. At the base of sporogonium is present a tubular	sheath is called
a)Involucre b) Columela c) foot 6	
o Is basal expanded part of spo	rogonium
a) Seta b) Capsule 7. The vesicles areshaped	c) foot
a) Elisare b) Rounded or egg sh	
8. The sexual reproduction in Sargassum is	aped c) Square
a) isogamous b) unisomous	c) constancing
9. The mobile phase in TLC is	
a) Liquid b) solid	c) Gas
a) Liquid b) solid 10. The study of algae is called	c, cas
a) Mycology b) Phycology	c) Cytology
Q 1 (B) Answer in one sentence	(10 marks)
1. What are Gemmae?	(20 marks)
2. What is Binomial nomenclature?	
3. Define Electrophoresis.	
4. Give the names of types of chromatograp	phy
Name the algae associated with thallus of	t Anthoceros.
Q. 2. Answer any two from the following:	(20 4)
(a) Describe the external morphology in San	(20 marks)
(b) Describe the economic importance of Ph	aeonhyta
(c) Explain the external morphology of Anth	oceros.
(d) Give systematic position and internal mo	orphology of Funaria.
Q. 3. Answer any two from the following:	(20 marks)
(a) Describe Cytology in relation to taxonom	IV.
(b) Classify family Asteraceae with reason ar	nd name two economically important
piants with uses.	
(c) Describe Palynology in relation to taxono	imy.
(d) Give the general characters and any two Family Papilionaceae.	economically important plants from
0.4.4	
Q. 4. Answer any two from the following:	(20 marks)
(a) Describe dry preservation technique.	
(b) Explain electrophoresis with a neat and is	abeled diagram.
(c) Explain principle, construction and working (d) Describe TLC and its applications.	ng of horizontal gel electrophoresis.
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Q. 5. Write short notes on: (Any four)	(20 marks)
(a) Systematic position of Sargassum	(20 marks)
(b) Dyes and techniques used for staining	
(e) Vegetative reproduction in Anthocerotop	sida
(c) Floras and Manuals	
(d) Transmission electron microscope (e) Structure of antheridium in Anthoceros	
(C) SUULLUIE DI ANINENGIUM IN ANINOCPIOS	