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G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., BOTANY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
I	PART - III	CORE-1	U23BO101	PLANT DIVERSITY I-ALGAE

Date &amp; Session: 09.11.2024 / FN

Time: 3 hours

Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION - A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	Which one of the following is a colonial alga? a) <i>Ulothrix</i> b) <i>Spirogyra</i> c) <i>Volvox</i> d) <i>Chlorella</i>
CO1	K2	2.	Show the mode of sexual reproduction in Chlorophyceae? a) Oogamous      b) Anisogamous      c) Isogamous      d) All of the above
CO2	K1	3.	Which one of the following algae have filamentous thallus? a) <i>Volvox</i> b) <i>Oedogonium</i> c) <i>Sargassum</i> d) <i>Chlorella</i>
CO2	K2	4.	Which one of the following algae have siphonous thallus? a) <i>Sargassum</i> b) <i>Gracilaria</i> c) <i>Caulerpa</i> d) <i>Chlorella</i>
CO3	K1	5.	Name the male gamete in sexual reproduction of algae is called as _____. a) Antherozoid      b) Egg      c) Basidiogamete      d) Zoosperm
CO3	K2	6.	Diplohaplontic life cycle is found in. a) <i>Ulva</i> b) <i>Gracilaria</i> c) <i>Sargassum</i> d) <i>Chara</i>
CO4	K1	7.	Which among the following is incorrect? a) Algae help in increasing oxygen levels in the environment b) <i>Chlorella</i> and <i>Spirulina</i> are multi-cellular algae that are rich proteins and are used as food supplements for space travelers c) Chlorophyceae comprise algae that contain chlorophyll a and chlorophyll b d) Chlorophyceae store food as proteins, starch or as oil droplet
CO4	K2	8.	Show the major source of eutrophication during algal biomass harvesting? a) Pure water      b) Nitrogen      c) Salty water      d) Effluent quality
CO5	K1	9.	Alginic acid is obtained from _____. a) Brown algae      b) Red algae      c) Yellow-green algae      d) Golden algae
CO5	K2	10.	Select the alga is the richest source of proteins? a) <i>Porphyra</i> b) <i>Ulva</i> c) <i>Rhododymenia</i> d) <i>Chlorella</i>

Course Outcome	Bloom's K-level	Q. No.	<p style="text-align: center;"><b>SECTION – B (5 X 5 = 25 Marks)</b>  <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b></p>
CO1	K3	11a.	Mention about the fresh water algae. <b>(OR)</b>
CO1	K3	11b.	Write about the flagella and its uses.
CO2	K3	12a.	State in your own words about Diatoms. <b>(OR)</b>
CO2	K3	12b.	Explain about the thallus of volvox.
CO3	K4	13a.	How would you explain about the life cycle in Oedogonium. <b>(OR)</b>
CO3	K4	13b.	Illustrate the reproduction of Chara.
CO4	K4	14a.	Explain indoor Algal cultivation. <b>(OR)</b>
CO4	K4	14b.	Identify the salient features in production of algae.
CO5	K5	15a.	Assess the role of algae as food. <b>(OR)</b>
CO5	K5	15b.	Compare the role of different algae's in agri business.

Course Outcome	Bloom's K-level	Q. No	<p style="text-align: center;"><b>SECTION – C (5 X 8 = 40 Marks)</b>  <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b></p>
CO1	K3	16a.	Mention the outline of classification of algae proposed by Fritsch. <b>(OR)</b>
CO1	K3	16b.	List out the importance of water in algae habitat.
CO2	K4	17a.	Describe the Thallus organization in <i>Caulerpa</i> . <b>(OR)</b>
CO2	K4	17b.	Discuss about the Thallus structure in <i>Sargassum</i> .
CO3	K4	18a.	Examine about the various reproduction in <i>Ulva</i> . <b>(OR)</b>
CO3	K4	18b.	Illustrate about the reproduction in <i>Gracilaria</i> .
CO4	K5	19a.	Evaluate on the salient features in Algal harvesting. <b>(OR)</b>
CO4	K5	19b.	Assess the characters and importance of Large scale techniques.
CO5	K5	20a.	Critically evaluate the role of algae as indicator of water pollution. <b>(OR)</b>
CO5	K5	20b.	Discuss about the role of algae in industry.