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E-6631

M.Sc. (IIIrd Semester) Examination, 2021

BOTANY

(Algae, Environment & Human Welfare)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Pass Marks : 24

SECTION - A

Q. 1. Attempt any ten questions. Each question carries one mark. **10**

(1) Iodine obtained from :

(a) Ulothrix

(b) Ectocarpus

(c) Laminaria

(d) Oedogonium

(2) Which is the most advanced group of Algae :

(a) Cyanophyta

(b) Rhodophyta

(c) Phaeophyta

(d) Chlorophyta

(3) The red color of Red Sea is because of :

(a) Chlamydomonas braunii

(b) Trichodesmum erythrium

(c) Ulothrix zonata

(d) None of above

(4) Origin & evolution of sex in Algae is best seen in :

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(a) Blue-green Algae

(b) Green Algae

(c) Red Algae

(d) Brown Algae

(5) Heterocyst are :

(a) Green & thin walled

(b) Green & thick walled

(c) Colorless & thin walled

(d) Colorless & thick walled

(6) Cephaleuros is :

(a) An epiphytic green Algae

(b) A parasitic green Algae

(c) A fresh water green Algae

(d) A colorless red Algae

(7) Who discover "Cryopreservation" :

(a) C. Polge

(b) A.V. Smith

(c) A.S. Parkes

(d) All above

(8) Who is father of phycology ?

(a) William Henry Harvey

(b) Robert Brown

(c) Galileo Galilei

(d) Theophrastus

(9) Carrageenans obtain from _____ edible seaweeds.

(10) Algal phylogeny traced by _____ genes.

(11) Algal biodiesel produced by aquatic _____.

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(12) Molecular taxonomy of Algae based on _____ composition.

SECTION - B

Note : Attempt any five questions. Each question carries 2 marks. **10**

Q. 2. (1) What is the role of contractile vacuole in chlamydomonas ?

(2) Use of porphyra dioica.

(3) Tetrasporophyte of polysiphonia.

(4) What is Algal aquaculture ?

(5) Nutritional value of spirulina.

(6) Uses of Algae as Biofertilizer.

(7) What is the use of Alginate ?

SECTION - C

Note : Attempt any five questions. Each question carries 4 marks. **20**

Q. 3. (1) What is the cyanophycean cell specificity ?

(2) Why phaeophycean members are restricted in colder sea region ?

(3) What is the role of Algae in Global carbon capture ?

(4) Describe Algal bioreactor.

(5) Why algal bio-fuels are substitute of fossil fuel ? Why this option not achieved yet ?

(6) Describe the bioactive compounds of Algae.

(7) Describe the bio-ethanol production processes.

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SECTION - D

Note : Attempt any three questions. Each question carries 10 marks. **30**

Q. 4. (1) Describe the various forms of thallus oganisation of Algal groups.

(2) Describe the phylogenetic relationship of Algal groups.

(3) Describe cryopreservation of Algae. Also mention its utility in human welfare.

(4) Describe industrial phycology as future Bioresources.

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