Department of Botany Kaliachak College

BOTANY (Honours)

Paper Code: |A

[New Syllabus]

Full marks: 14 Time: Twenty Minutes

Choose the correct answer.

Each question carries 1 mark.

- 1 Hartig net is found in
 - (A) Arbustus sp.
 - (B) Synchytrium sp.
 - (C) Ascobolus sp.
 - (D) Rhizoctonia sp.
 - 2 Male sex organ of Chara is
 - (A) Corona
 - (B) Protonema
 - (C) Nucule
 - (D) Globule
 - 3 Full form of MIC is -
 - (A) Minimal Ion concentration
 - (B) Minimum Ion concentration
 - (C) Minimal Inhibitory concentration
 - (D) Minimum Inhibitory concentration
 - 4 The following is the ascomycetous mushroom
 - (A) Marchella esculenta
 - (B) Pleurotus sajor-caju
 - (C) Agaricus bisporus
 - (D) Lentinula edodes

5 Storage food of red algae is —
(A) Starch
(B) Cyanophycean starch
(C) Floridean starch
(D) Laminarin
6Agar-agar is obtained from —
(A) Gelidium sp.
(B) Polysiphonia sp.
(C) Fucus sp.
(D) Laminaria sp.
7The following is the prokaryotic alga —
(A) Anabaena
(B) Coleochaete
(C) Chara
(D) Polysiphonia
8 Three components of a disease trangle are —
(A) Host, Pathogen, Symptom
(B) Host, Infection, Pathogen
(C) Host, Environment, Pathogen
(D) Pathogen, Infection, Environment
9 Which one of the following is major pigment of chlorophyta —
(A) Chlorophyll-a, c
(B) Chlorophyll-a, b
(C) Chlorophyll-a, e
(D) Fucoxanthin
10 The following is the systematic fungicide —
(A) Benomyl
(B) Ferbam
(C) Bordeaux mixture
(D) Burgundy mixture
11 Asexual reproduction of lichen is form through —
(A) Fragmentation
(B) Soredium
(C) Ascospore
(D) Hypnospore

12Agar-agar is obtained from —	
(A) Laminaria sp.	•
(B) Chlorella sp.	
(C) Gelidium sp.	
(D) Nostoc sp.	
13Establishment of pathogen within host is term	ned as —
(A) Infection	
(B) Inoculum	
(C) Penetration	Sel .
(D) Symptom	

14 Lichen is the symbiotic association between —

(B) Algae and Fungi

(C) Angiosperms and Blue-green algae

(A) Algae and Bryophyta

(D) Gymnosperms and Fungi

2021

Department of Botany

Kaliachak College

BOTANY (Honours)

Paper Code: |B

[New Syllabus] Full marks: 56

Time: Two Hours Forty Minutes

The figure in the margin indicate full marks

Group: A

1	Ansv	wers any two of the following:	4×2=8
	(i)	Differentiate between endemic, epidemic, pandemic and sporadic Write down the limitations of Koch's Postulates.	diseases. 2+2=4
	(ii)	Write the fungal source and use of:	2+2=4
	٠.	(a) amylase	
		(b) Tryptophan	
	(iii)	Distinguish between primary and secondary inoculum.	4
	(iv)	What is local acquired resistance and systemic acquired resistan	nce?
			2+2=4
2	Ans	swers any two of the following:	10×2=20
	(i)	Write the causal organism, symptoms, disease cycle and control of "stem rot of jute."	1 measure +5+2=10
	(ii)	What is phytoalexins? Write an explanatory note on it.	2+8=10
8	(iii)	What do you mean by button stage? Illustrate the different mature basidiocarp in Agaricus.	parts of a 2+8=10
	(iv) With the help of suitable diagrams describe the different fructification in Ascomycetes.	types of

1 . Answer any two of the following:	4×2=8
(i) Distinguish between macrandrous and nannandrous species of	Oedogonium.
(ii) Discuss the economic importance of Lichen.	***
(iii) Write algal source and use of the following —	
(a) Agar (b) Algin	
(iv) Write down the major types of algal thalli.	
2 Answer any two of the following:	10×2=20
(i) Define lichen. Briefly describe different morphological types of example. Comment on the reproductive structure of Crustose	
(ii) Give an account of the post fertilization changes of <i>Polysip</i> is the life cycle of <i>Polysiphonia</i> triphasic in nature?	phonia. Why 7+3=10
(iii) Discuss on the origin and evolution of sex in algae.	10
(iv) What is heterocyst? Describe the ultrastructure of heterocyst.	Comment

on its role in nitrogen fixation.

2+6+2=10