Botany [Major]

[NEP]

B.Sc. First Semester End Examination-2024 PAPER-BOT-H-MJ-101T

Plant and Microbial diversity and its evolution

Full Marks: 40

Time: 02 Hrs.

The figures in the right hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group - A

1. Answer any five of the following:

2x5=10

- a) What type of life cycle is seen in Polysiphonia?
- b) What are crustose lichens?
- c) What are carinal canals?
- d) Write down two importance of Sphagnum.
- e) What are peristome teeth?
- f) What are the components of the fungal cell wall?
- g) What are globules and nucules?
- h) What is lysogenic phage?

Group - B

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2.	An	swer any four of the following: 5x4=20
	a)	Write a short note on Whittaker's five kingdom system of
		classification.
	b)	Write short notes on: 2.5 +2.5
		i) Enveloped virus.
		ii) Prion.
	c)	Discuss the similarities of Gnetum with angiosperms.
		Discuss the structure of female cone of Pinus. 2.5+2.5
	d)	Write a note on origin of land plants. Which angiosperm
		appeared first? 4+1
	e)	What is the function of heterocyst? What is a nannandrous
		male filament? 2.5+2.5
	f)	Discuss the factors affecting fossilization. What is
		petrification? 3+2

Group - C

3.	Answer any one of the followings:	10x1=10
	a) Give the outline classification of fungi by Ainsv	vorth up to

subdivision. Describe the sporophyte of Anthoceros. 5+5

b) Discuss about range of thallus structures in algae with diagrams. Write down four advanced characters of chara. 6+4