## UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / First Semester - Spring 2022

Paper: Botany-I (Plant Diversity) Course Code: BOT-101

Roll No	
Time: 3 Hrs	Marke: 60

## THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

## Q.1. Answer the following short questions:

(6x5=30)

- 1. Draw and explain the structure of Capsule of Funaria.
- 2. Draw life cycle of Puccinia graminis.
- 3. Draw and explain Plurilocular and Unilocular sporangia in Ectocarpus.
- 4. Explain Scalariform and Lateral conjugation in Spirogyra.
- 5. What are main characteristics of Centric & Pennate Diatoms.
- 6. Draw and describe canal system in Equisetum stem.

## Q.2. Answer the following questions.

(3x10=30)

- i. Draw and describe life cycle of Selaginella.
- ii. Differentiate between Seed habit and Heterospory. How does Heterospory lead to Seed formation?
- iii. Draw and describe life cycle of smut fungi.