



Subject: Botany
PAPER: B

UNIVERSITY OF THE PUNJAB
B.A. / B.Sc. (Composite) Annual Exam – 2019

Roll No.

MAX. TIME: 3 Hrs.
MAX. MARKS: 35

NOTE: Attempt any FIVE questions in all by selecting at least TWO questions from each part. All questions carry equal marks. Elaborate your answer with diagram, where necessary.

Part I

- Q1: What is shoot? Explain following aerial modification of shoot
a) Tendril b) Spines c) Phylloclades & Cladodes (1+2+2+2)
- Q2: Differentiate between Racemose and Cymose inflorescence. Explain special type of inflorescence. (1+6)
- Q3: What is classification? Explain natural system of classification. (1+6)
- Q4: Define fruit. Explain types of composite fruit. (1+6)
- Q5: Describe the characteristics of family Gramineae (Poaceae) with its economic importance. (5+2)

Part II

- Q6: a) Describe the chemical composition of cell wall. (4)
b) What are Pits? Explain its types. (3)
- Q7: Define meristem. Explain apical organization in shoot apex. (1+6)
- Q8: What are vascular tissues? Explain xylem in detail. (1+6)
- Q9: What is development? Explain development of typical dicot embryo. (1+6)