Name of the paper: Plant Cell and Developmental Biology Semester: III Max. Marks: 30 Q1. Give one word answer for the following: 10 marks (a) A cell and tissue type in which the primary cell walls are unevenly thickened..... (b) A vascular bundle which has strands of xylem and phloem on the same radius (c) Vessels are characterized by the presence of (d) Thalamus of Pyrus has Sclereids (e) The structure in endodermis that blocks the apoplasmic transport in roots...... (f)in roots is responsible for the formation of lateral roots. (g) Multiseriate epidermis in the roots of orchids (h)cell divisions are characteristic of tunica layer. (i) In grasses help in rolling of leaves. (i) The epidermal cells bordering the guard cells are called..... Q2. Write short notes on the following: (2.5x4=10 marks)(a) Root cap and its function (b) Theories of root apical meristem/shoot apical meristem (c) Kranz anatomy (d) Functions of parenchyma Q3. Differentiate between: : (2.5x4=10 marks) (a) Tracheids and vessels (b) C3 and C4 plants

(c) Parenchyma and sclerenchyma/collenchyma

(d) Monocot and dicot root/stem

Name of the course: B.Sc. Life Science