

Question to be CHALLENGED with supporting explanation

Read the following statements about the vascular bundles:

- (a) In roots, xylem and phloem in a vascular bundle are arranged in an alternate manner along the different radii.
- (b) Conjoint closed vascular bundles do not possess cambium
- (c) In open vascular bundles, cambium is present in between xylem and phloem
- (d) The vascular bundles of dicotyledonous stem possess endarch protoxylem
- (e) In monocotyledonous root, usually there are more than six xylem bundles present

Choose the correct answer from the options given below:

- (1) (a), (b) and (d) only
- (2) (b), (c) and (e) only
- (3) (a), (b), (c) and (d) only
- (4) (a), (c), (d) and (e)

There is NO CORRECT Option given in this question because (a) statement is also correct as per NCERT so ALL STATEMENTS ARE CORRECT.

Explanation as per NCERT LINES (HIGHLIGHTED IN YELLOW)

As per NCERT PARA 6.2.3 **The Vascular Tissue System** Page No. 90

"When xylem and phloem within a vascular bundle are arranged in an alternate manner along the different radii, the arrangement is called radial such as in roots."