

ONE TWO ACADEMY**STD 10 SCIENCE****Plant anatomy and Plant physiology****Total:- 25 marks****Time:- 45 minutes****Answer the following questions:****4 x 1 = 4**

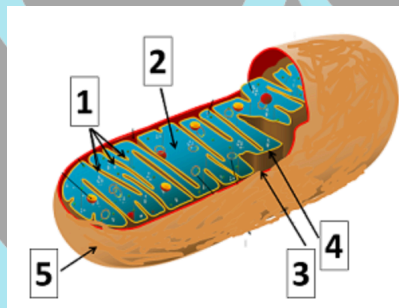
1. $RQ = ?$
2. Where does the dark reaction takes place ?
3. Draw and label the structure of oxysomes.
4. Expand NAD.

Answer any three of the following questions:-**3 x 2 = 6**

5. What are the functions of chloroplast?
6. What are the three different types of vascular bundles.
7. Write a short note on mesophyll.
8. Where do the light-dependent reaction and the Calvin cycle occur in chloroplast.

Answer any two of the following questions:-**2 x 4 = 8**

9. Name the labelled numbers from the given diagram of the structure of mitochondria.



10. a) What is photosynthesis ?
b) Where does it occur?
c) Give a chemical reaction for photosynthesis.
11. Differentiate Aerobic and anaerobic respiration.

Answer any one of the following questions:-**1 x 7 = 7**

12. Describe and name the three stages of cellular respiration that aerobic organisms use to obtain energy from glucose.
13. a) Mention the differences between Dicot and Monocot roots.
b) Mention the differences between Dicot and Monocot stem.

One Two Katral maiyam